SERVICE MANUAL

COOKING

Cookers

TERIM STEEL

© ELECTROLUX ITALIA S.p.a.
Corso Lino Zanussi, 30
I - 33080 PORCIA /PN (ITALY)

Fax +39 0434 394096

Publication No.

599 38 52-33

EN/SERVICE/FV

SOI

Edition: 12.2006 - Rev. 00

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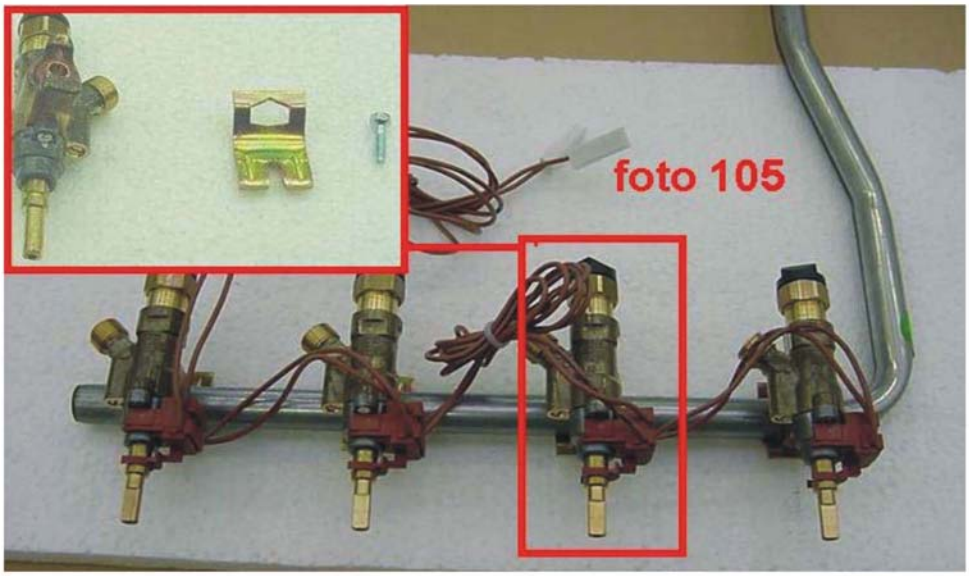
1 - HOB GAS PARTS

1.1 - GAS RAMP



HDC03337.JPG

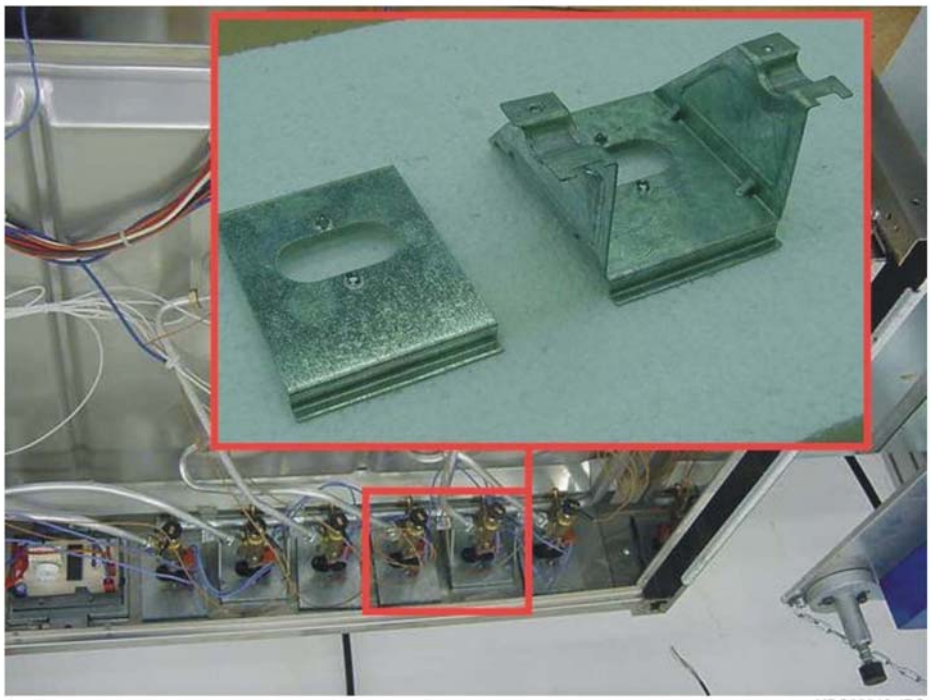
The picture shows the gas ramp and its assembly components.

HDC03338.JPG

Tap rear side with coaxial thermocouple.

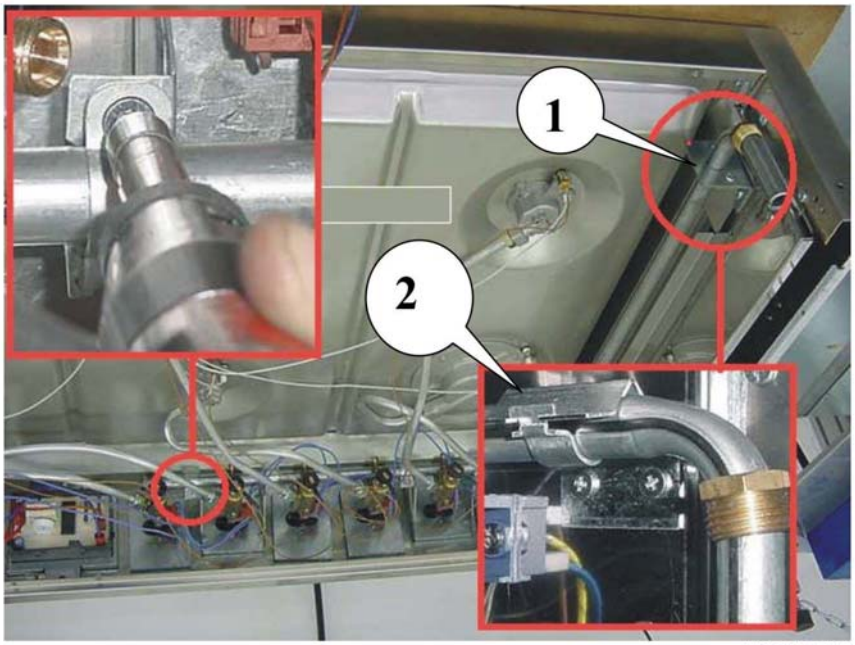
HDC03339.JPG

Tap lateral side with coaxial thermocouple: same characteristics as above except for the clutch type for thermocouple with faston.



HDC03340.JPG

Two types of bezel supports: the right one works also as a support for the gas ramp.



HDC03341.JPG

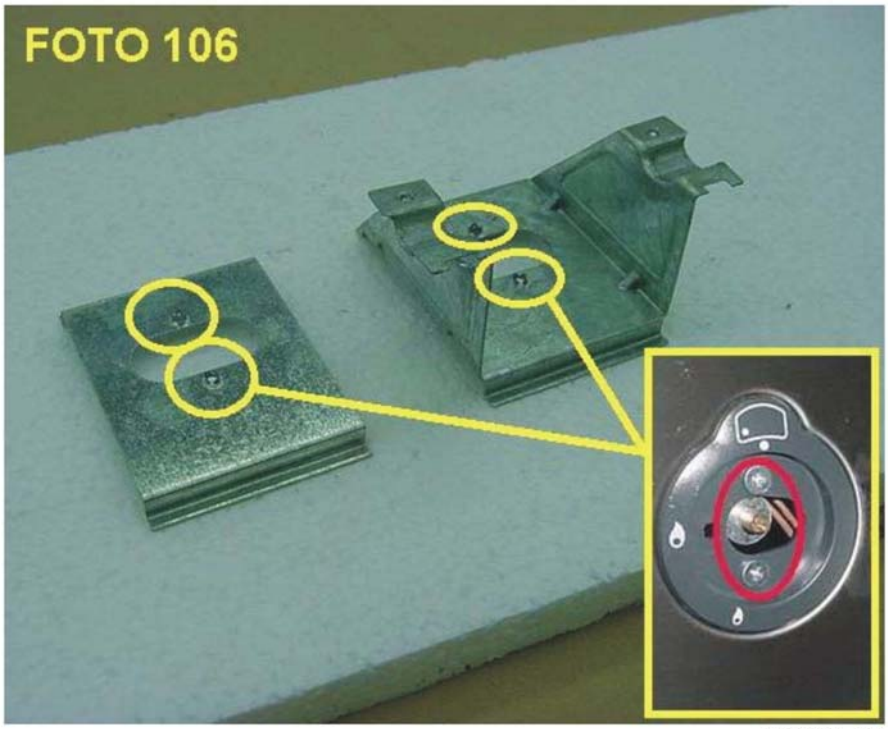
The picture shows the bracelets to fix the ramp to the front and rear supports:

1. first ramp support type.

2. intermediate ramp support.

HDC03342.JPG

Here is the existing model of the rear ramp support.

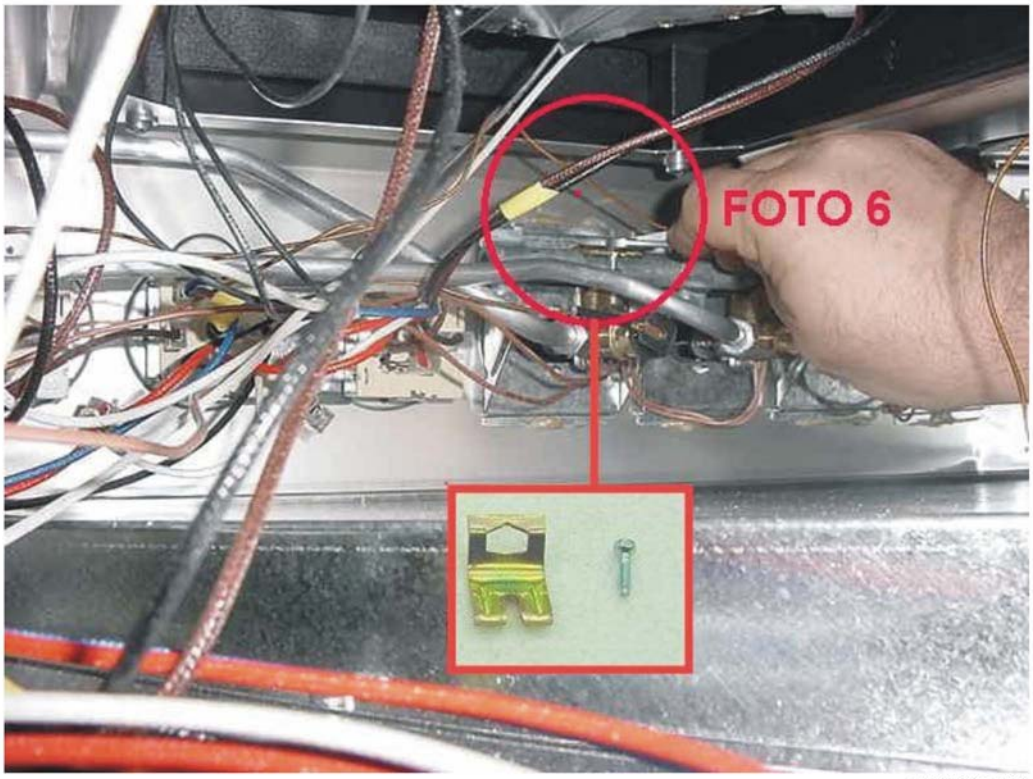


HDC03343.JPG

The bezel fixing screws may change according to the type of bezel or knob in use.

1.2 - GAS TABS

HDC03344.JPG

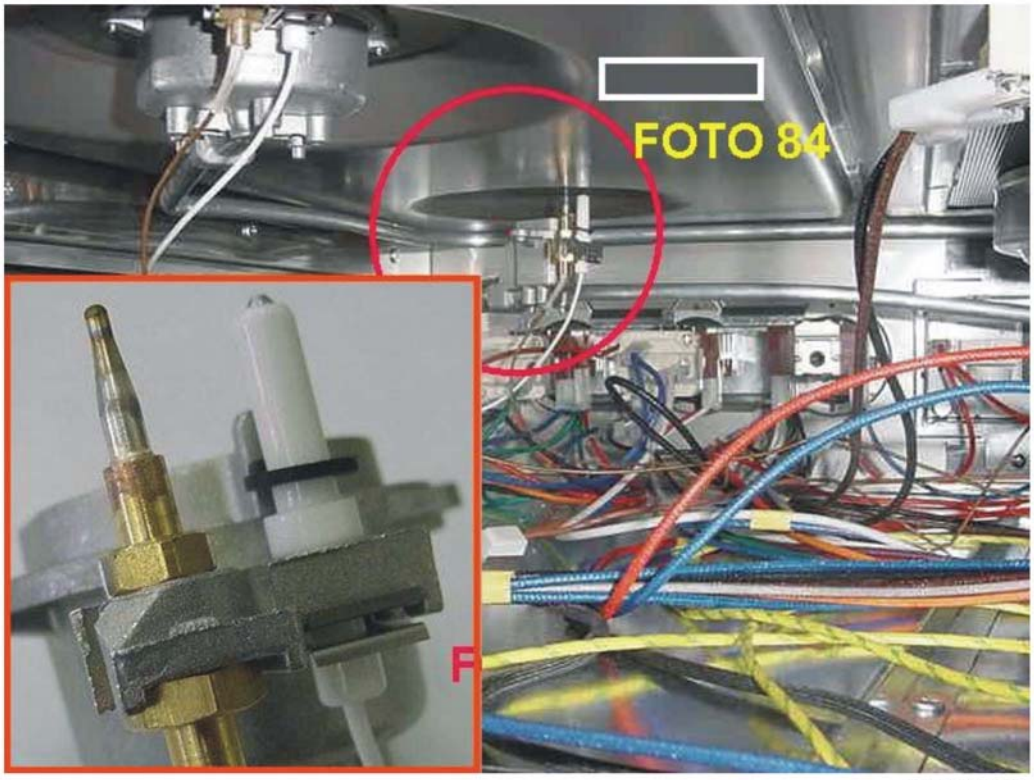


HDC03345.JPG

Replacing the tap. After removing the pipe tightening nut and after taking the thermocouple end off, by means of a spanner no.7 remove the blocking screw from the tap until the complete release of the clip. Then disconnect the catenary and remove the tap. To reassemble the new tap again, follow the removing instructions in reverse order. By this step a second operator might be necessary.
After reassembling the tap it is highly recommended to test and verify there is no gas leakage.

1.3 - GAS BURNERS

HDC03346.JPG



HDC03347.JPG

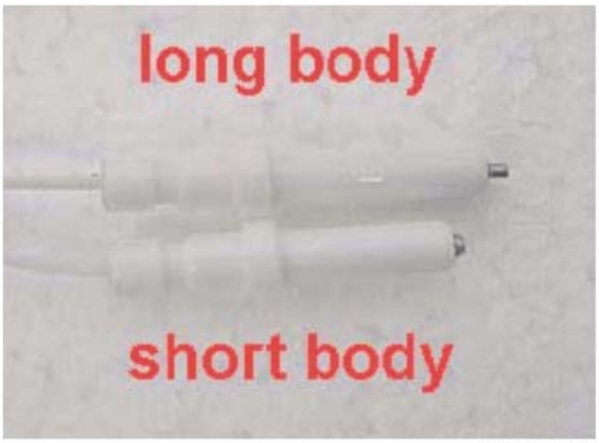
Replacing a burner. Remove the tightening nut of the gas pipe, take the external screws off, then lower the burner from inside the hob. Take the gasket out taking care not to damage it (in case it is damaged it must be replaced). Then remove the clip from the spark plug and draw it out. By means of a spanner no.8 remove the thermocouple by unscrewing the fixing nut. To reassemble the burner again, follow the removing instructions in reverse order.

After reassembling the burner it is highly recommended to test and verify there is no gas leakage.

HDC03348.JPG

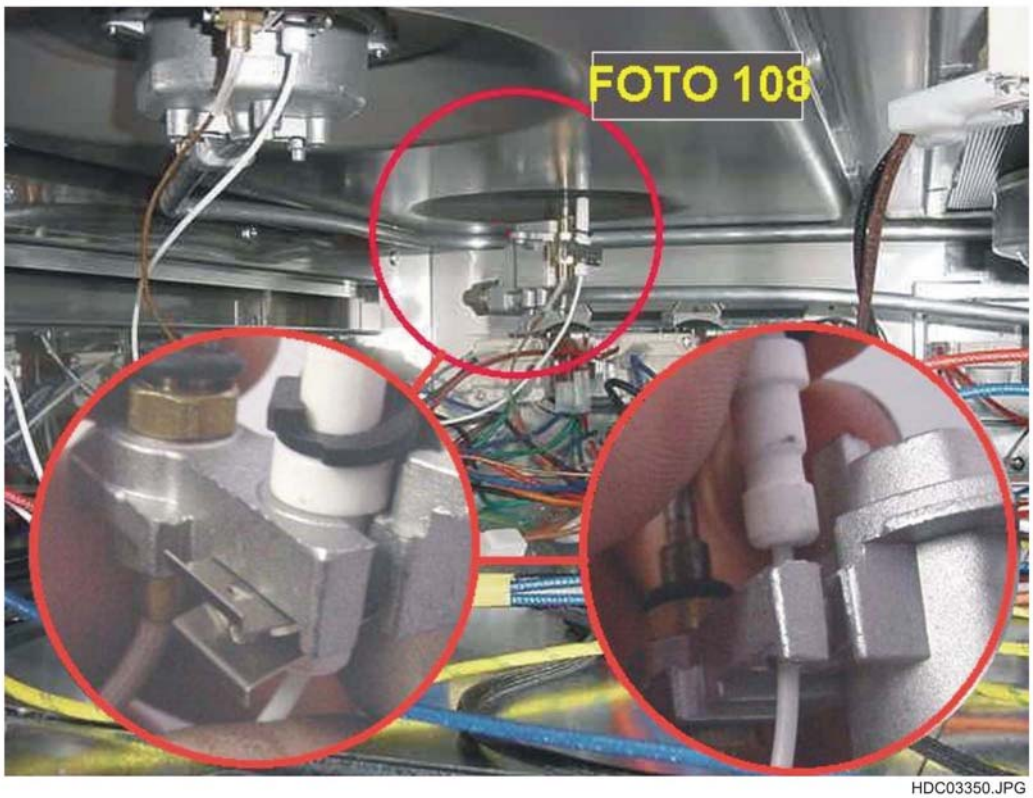
New gaskets have been recently put between hob and burners to seal the whole burner perimeter, including spark plug and thermocouple (the picture shows the semi-rapid burner type). At the beginning gaskets type “O-ring” were used only on the spark plug and on the thermocouple; if their replacement is necessary we suggest their replacing with the new complete kind of gasket.

1.4 - BURNER SPARK PLUG



HDC03349.JPG

By ordering spark plugs pay attention to the needed model. On a same cooker you may find two different models of spike plugs (see picture) according to their length. They are not interchangeable. The longer one fits the triple ring or “wok” burner, while the short one fits all the remaining burners.



HDC03350.JPG

Replacing the spark plug. Remove the screws from the burner, then lower it softly. Take the gasket out of the hob without damaging it and after drawing the blocking clip out, disconnect the spark plug and then remove it. To reassemble the spark plug again, follow the removing instructions in reverse order.

1.5 - THERMOCOUPLES

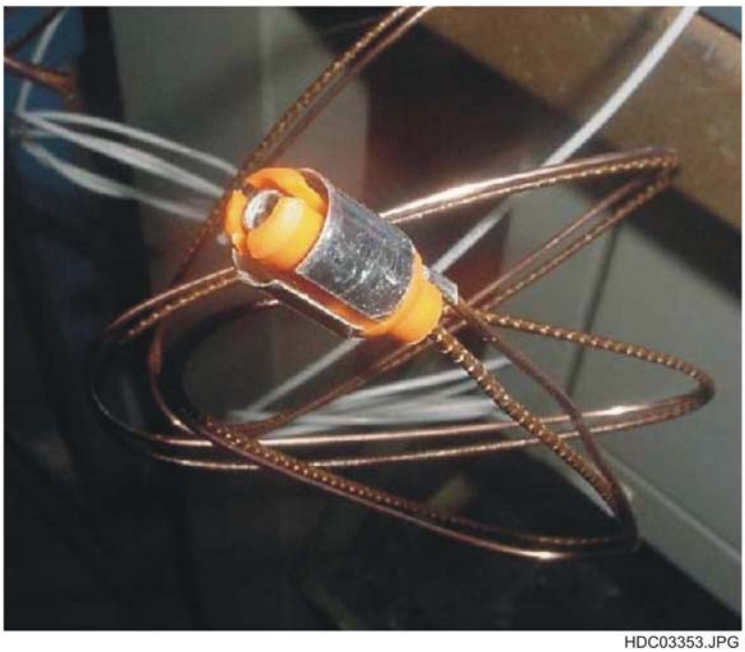
HDC03351.JPG

By ordering thermocouples make sure you are specifying the model you need. There are indeed three different kinds of thermocouples: as the picture shows, the long one fits the triple ring or “wok” burner only, while the short one has a model which fits the rapid burner only for the cooker 120 cm, 4 burners+barbecue+fryer (ex. S12FF-4BF/TF/TG/BC and so on.)

HDC03352.JPG

Thermocouple with faston connection.

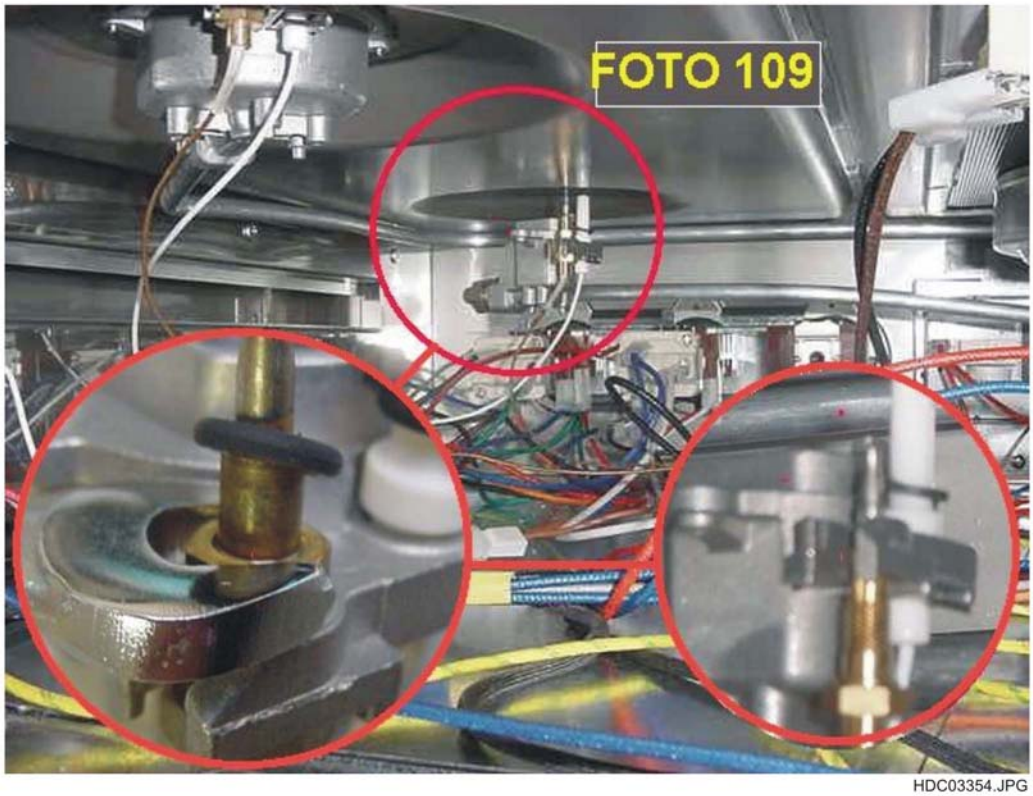
This thermocouple is used no more in the present production and it can not be interchangeable with the coaxial junction model.



HDC03353.JPG

Thermocouple with coaxial junction.

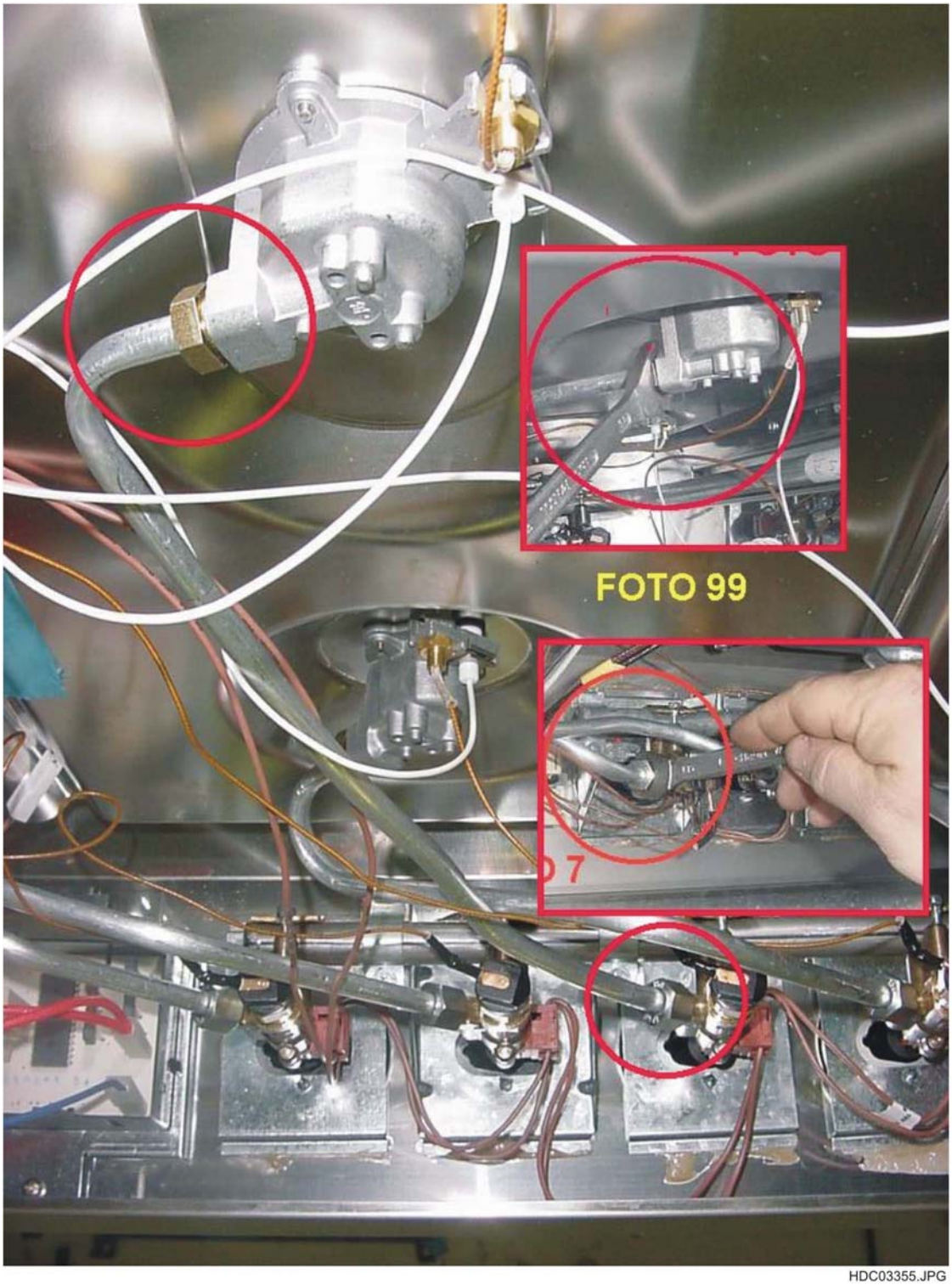
This thermocouple is now used in the present production and it can not be interchangeable with the faston model.



HDC03354.JPG

Replacing the safety thermocouple.
Remove the screws from the burner, then lower it softly. Take the gasket out of the hob without damaging it and by means of a spanner no.8 unscrew the blocking nut, remove the thermocouple and disconnect it from the tap. To reassemble the thermocouple again, follow the removing instructions in reverse order.

1.6 - GAS PIPE (FROM TAPS TO BURNERS)



HDC03355.JPG

Replacing a gas pipe. Using a spanner no. 15 unscrew the tightening nuts of the pipe both on the tap and on the burner sides, then after taking out the pipe, verify that inside the burner thread seat there is no aluminium residue that could obstruct the nozzle, then after that checking, assemble the new pipe. In case you are using a torque wrench the tightening must be done by means of a 12 newton couple, in case you are using a normal spanner, then avoid screwing completely the nuts, in order to leave a margin to allow a further tightening in the event of leak.

1.7 - BURNER JETS

HDC03356.JPG

HDC03357.JPG

To replace the nozzles we suggest using a screwdriver or a “T”- shaped spanner no.7. The diameter no. and other letters are shown on the nozzle to allow a clearer identification.

1.8 - MINIMUM LEVEL ADJUSTMENT

HDC03358.JPG

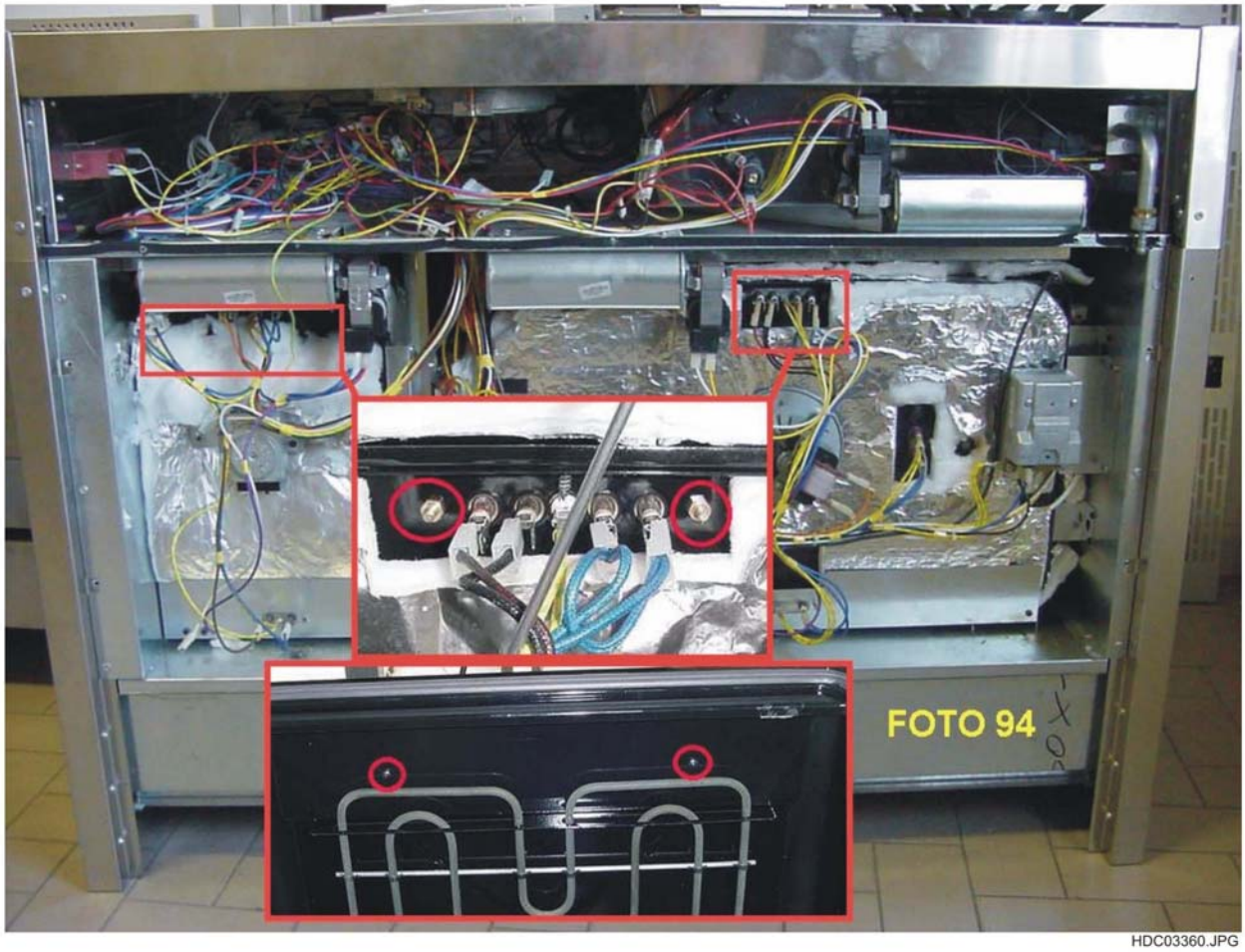
HDC03359.JPG

In case of gas-type changing.. Provide the right injectors fitting the required gas type and then by means of a T-shaped spanner no 7, unscrew the injectors one by one and then replace with the ones suitable for the burner type; for this operation we recommend to follow strictly the instructions on the cooker manual (the gauge is printed on the injector). After replacing the injectors you need to adjust the minimum levels.

Remove the knob and look after the small screw on the right of the tap body; by means of a small screwdriver turn completely clockwise and after turning on the burner and after putting on the minimum position, unscrew anticlockwise slowly until the flame becomes 1/3 of its maximum dimension.

2 - OVENS AND HOBS ELECTRICAL PARTS

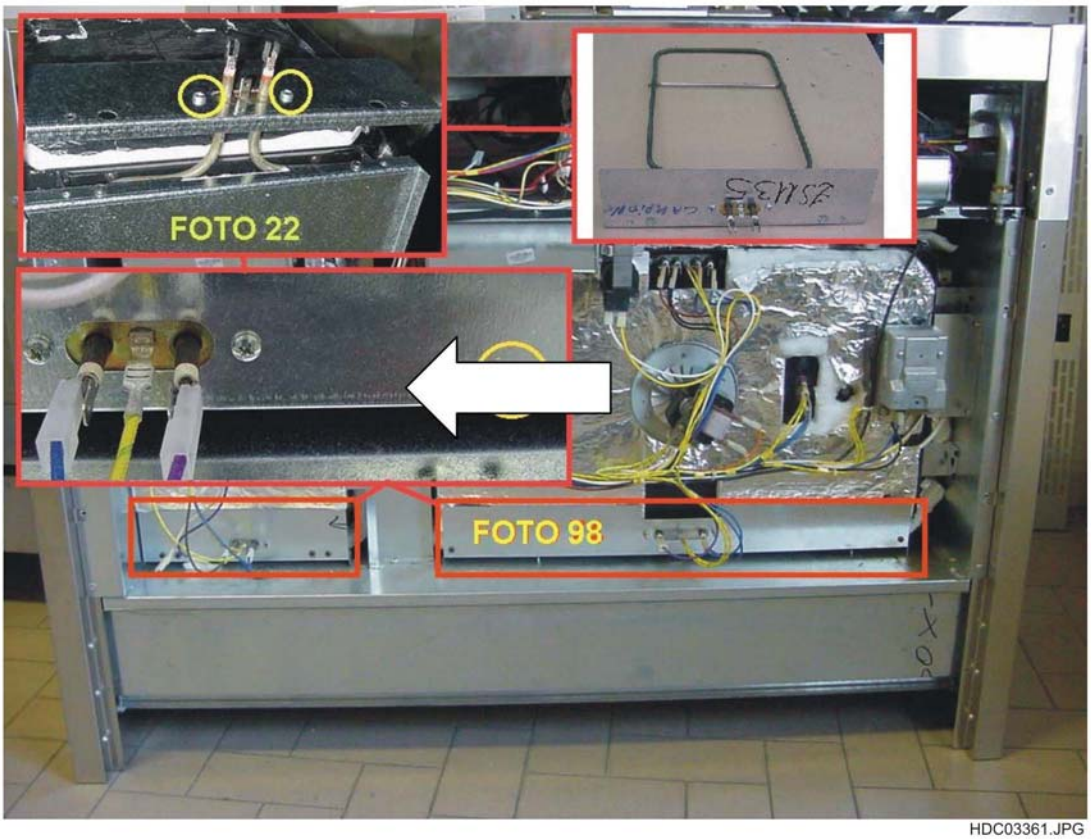
2.1 - OVEN - UPPER HEATING ELEMENTS



HDC03360.JPG

The pictures show the fixing points for the heating elements upper/grill in the ovens: big 90/60 multifunction oven and small 30 auxiliary oven. First make a note of the wiring, then unplug the cables. Disassemble the inner support and take it out, then unscrew the nuts or the external screws on theback, extract the heating element from the front.
To reassemble, follow the removing instructions in reverse order.

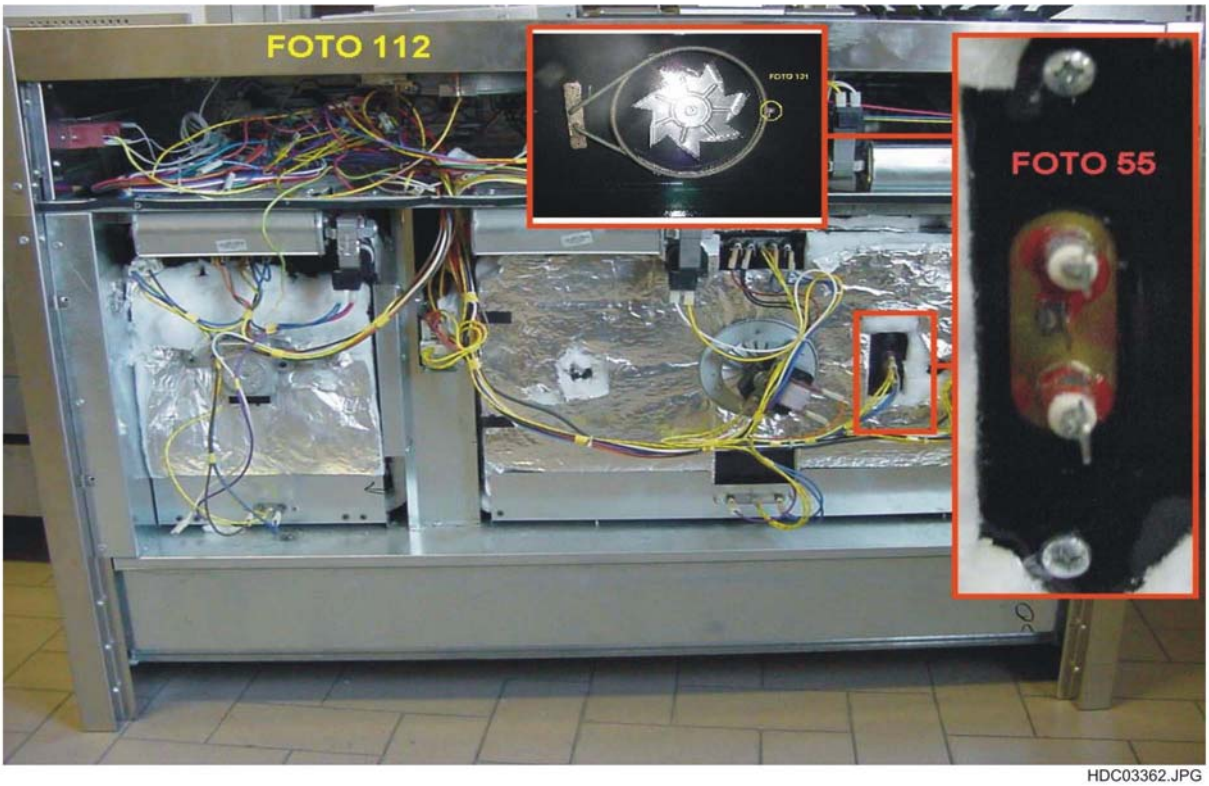
2.2 - OVEN - BOTTOM HEATING ELEMENT



HDC03361.JPG

Replacing the bottom heating element of the multifunction 90/60 oven and of the small 30 oven. First of all make a note of the wiring, then unplug the cables, disassemble the support on which the element is screwed, take the group out from the back and draw the heating element out of the support. To reassemble again, follow the removing instructions in reverse order.

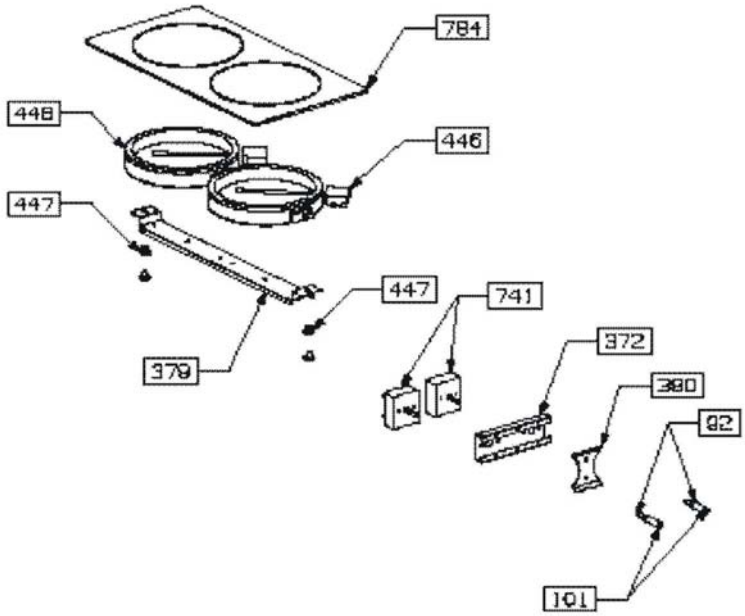
2.3 - OVEN - FAN HATING ELEMENT



HDC03362.JPG

To intervene on the fan heating element, first of all disassemble the inner air-conveyor by using a spanner no.10, then unscrew the self-tapping screw on the center of the element and then from the back unscrew the two screws. To reassemble again, follow the removing instructions in reverse order. We recommend to make a note of the position of the cables on the heating element.

2.4 - HOB - BARBECUE AND FRY-TOP HEATING ELEMENT



HDC03363.JPG

HDC03364.JPG

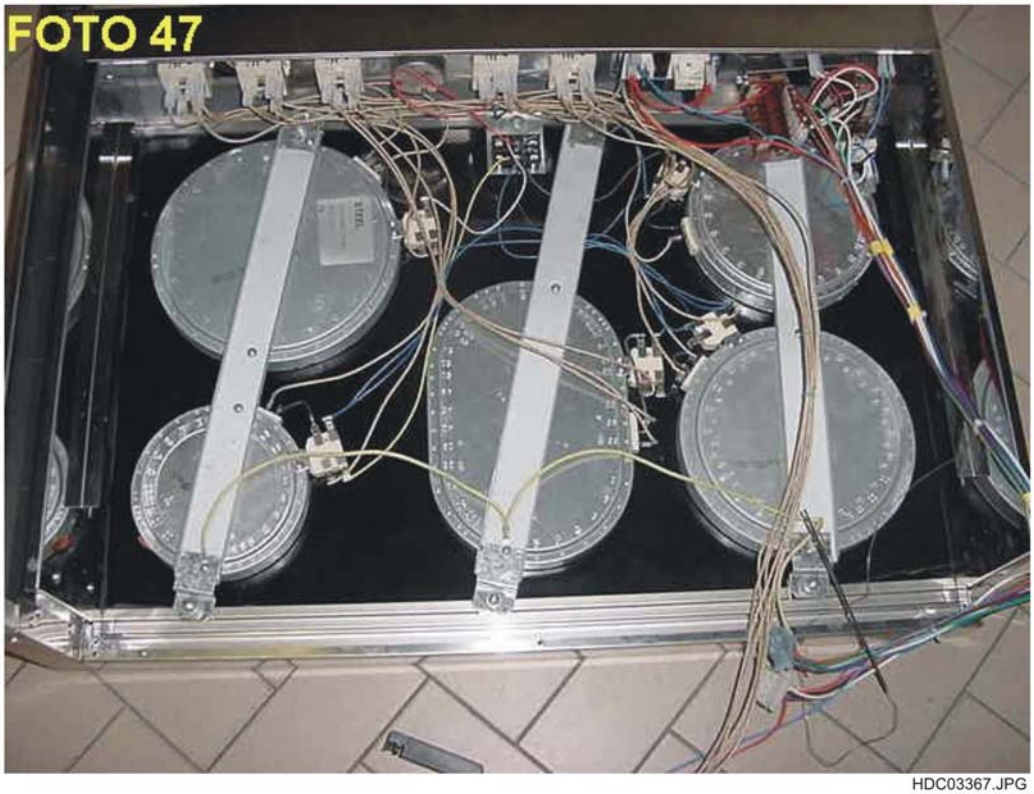
HDC03365.JPG

The picture on the right shows the screws fixing the heating elements on the support in yellow, the screws fixing the support to the hob in red. First make a note of the wiring, then disconnect the cables. Pay attention to the digits on the perimeter of the element metal cage, since they are the reference to position the heating element with precision and to put this in line with the glass serigraphy. After this, remove the heating element.

HDC03368.JPG

It is possible to replace the heating element without disassembling the hob. Since you need to operate on a small area (about 150 mm in height) we suggest a screwdriver like the one shown in the picture.

2.5 - HOB - CERAMIC HEATING ELEMENTS



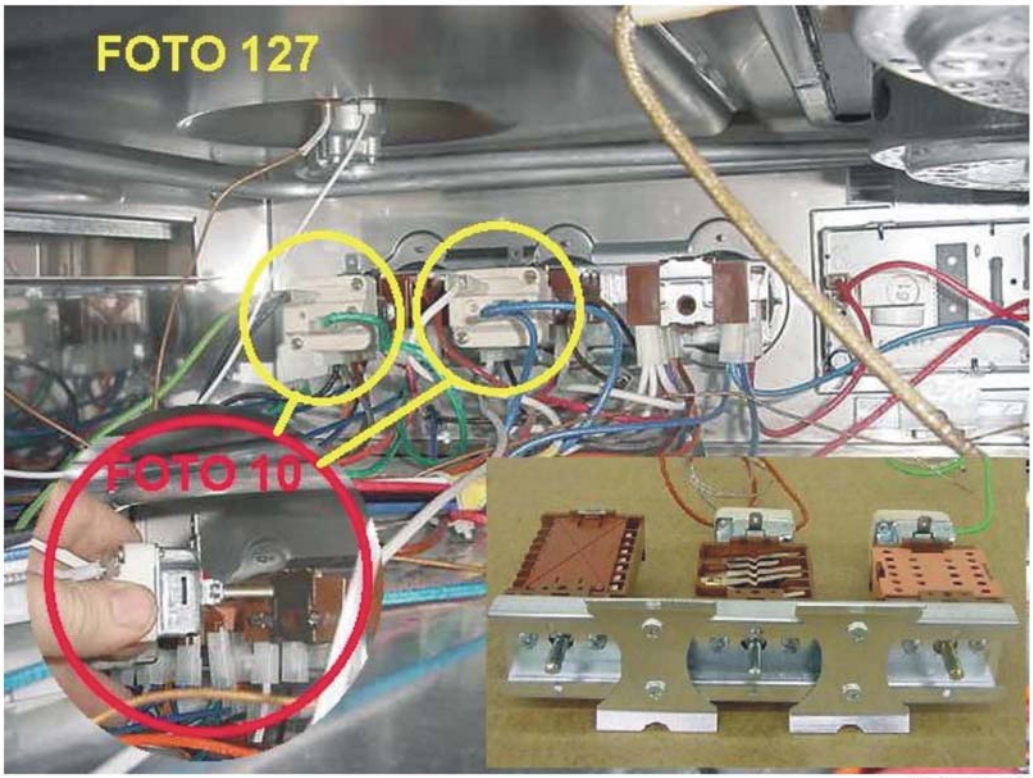
HDC03367.JPG

In the picture no. 47 a ceramic hob is shown overturned to display the system fixing the heating elements to the supports and these ones to the hob. Before operating make a note of the wiring then disconnect the cables. Pay attention to the digits on the perimeter of the element metal cage, since they are the reference to position the heating element with precision and to put this in line with the glass serigraphy. After this, remove the heating element.

HDC03368.JPG

It is possible to replace the heating element without disassembling the hob. Since you need to operate on a small area (about 150 mm in height) we suggest a screwdriver like the one shown in the picture.

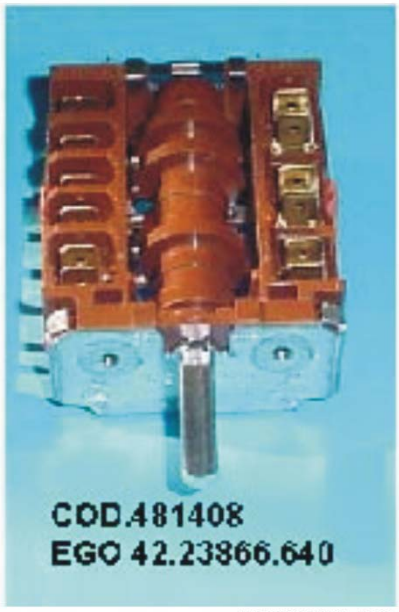
2.6 - OVEN THERMOSTAT



HDC03369.JPG

The picture shows the two thermostats in the big 90/60 multifunction oven and in the small 30 auxiliary oven.
To replace the thermostats, first unplug the bulbs from support clips inside the oven and take them out from the back, then unplug the electric connections and then extract the thermostats out of their seats on the switches.
To place the thermostats again, follow the removing instructions in reverse order.

2.7 - OVEN SWITCHS



HDC03370.JPG

Elux. Code 5026 40 73-00/3

HDC03371.JPG

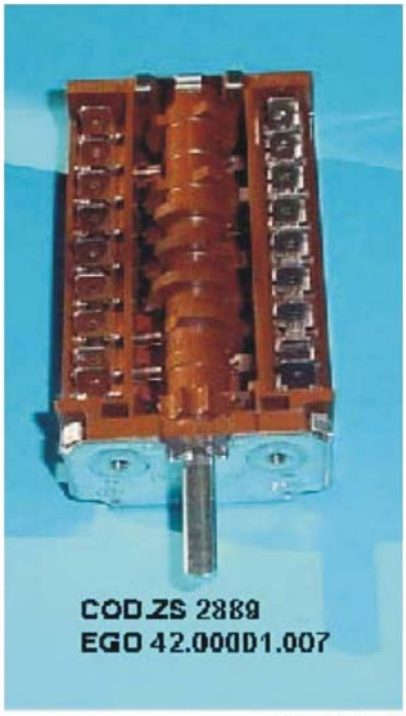
Elux. Code 5022 64 66-00/6

HDC03372.JPG

Elux. Code 5024 69 25-00/7

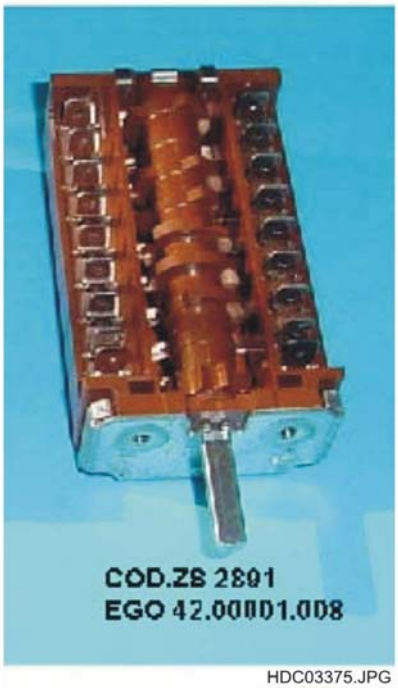
HDC03373.JPG

Elux. Code 5028 97 73-00/9



HDC03374.JPG

Elux. Code 5028 99 55-00/2

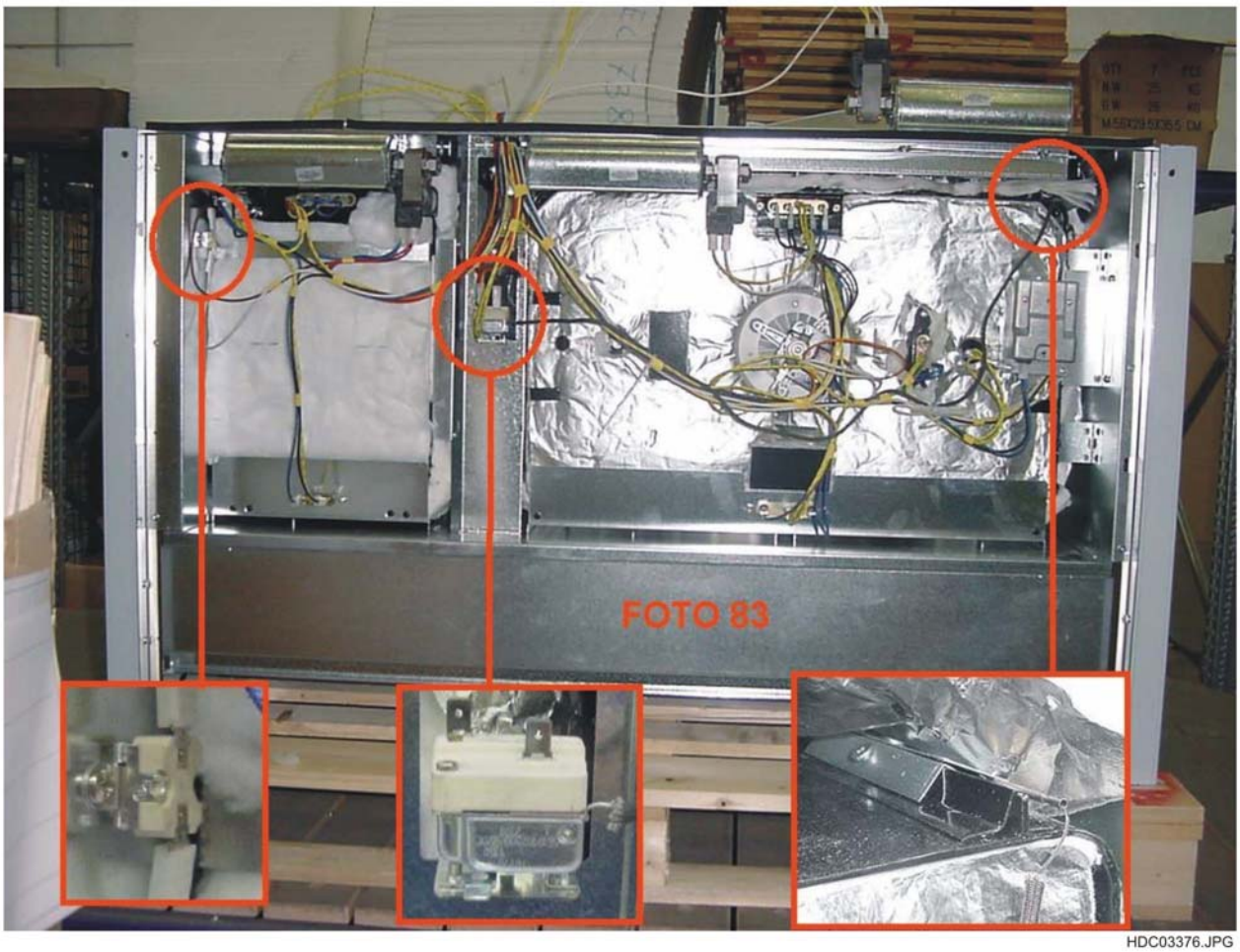


HDC03375.JPG

Elux. Code 5028 97 74-00/7

The pictures show all switch models. By their conjunction, you can obtain all combinations in use now.

2.8 - SAFETY THERMOSTATS



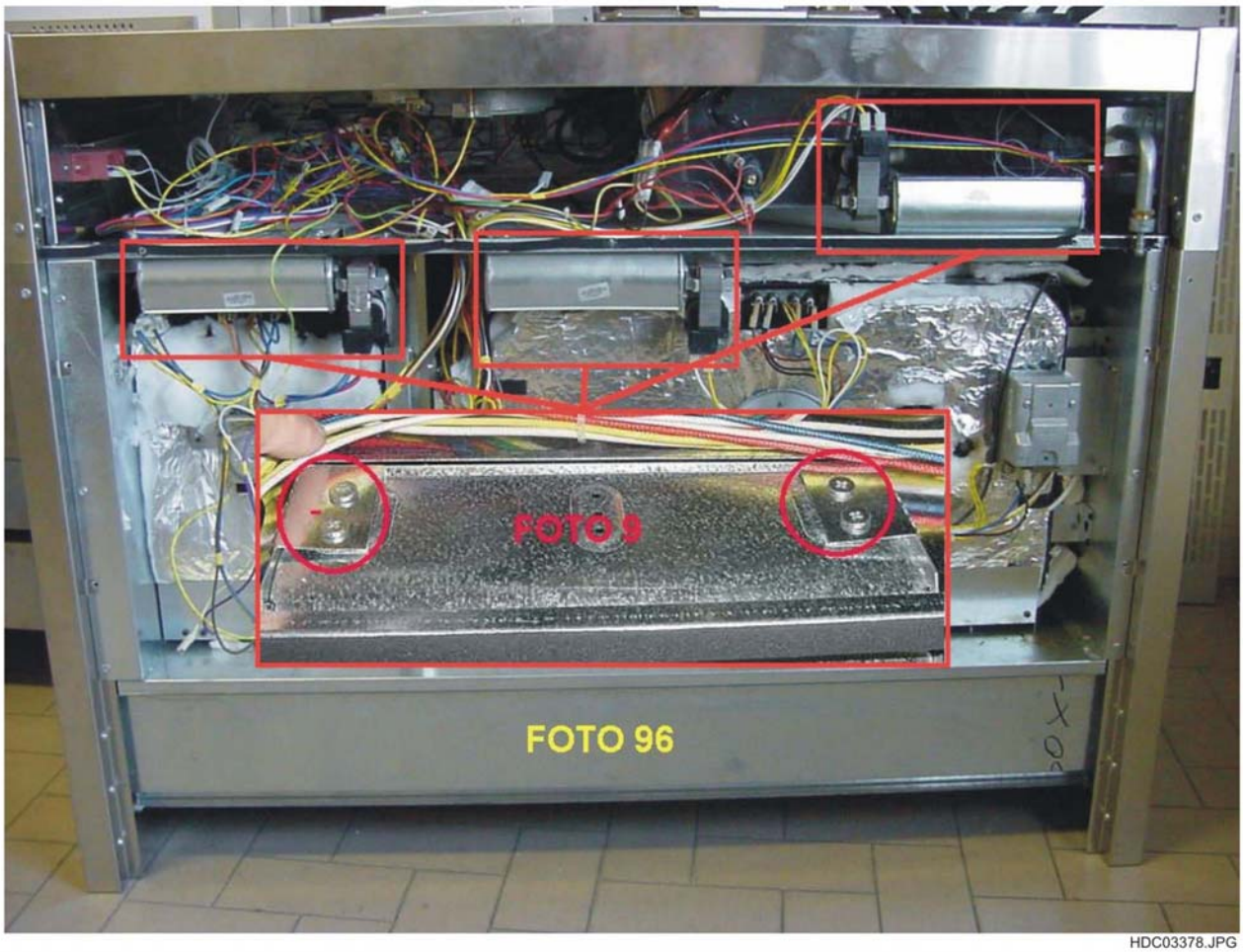
HDC03376.JPG

Here's above two models of thermostat: on the left a direct contact thermostat, while on the right a thermostat provided with a sensor (bulb) measuring the temperature. To replace the first type you need disconnecting and unscrewing it. To replace the second type you must pay attention to the bulb assembling phase, since it needs to be placed between two sheets to keep it in position (for the right one take care to put the protection).

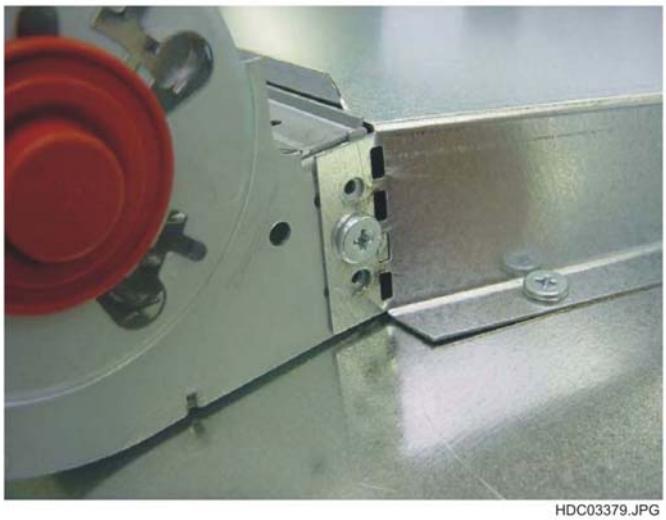
HDC03377.JPG

With the introduction of the new assembled muffle and new oven doors, the thermostats are put on a support which is the same on all ovens.

2.9 - COOLING FAN



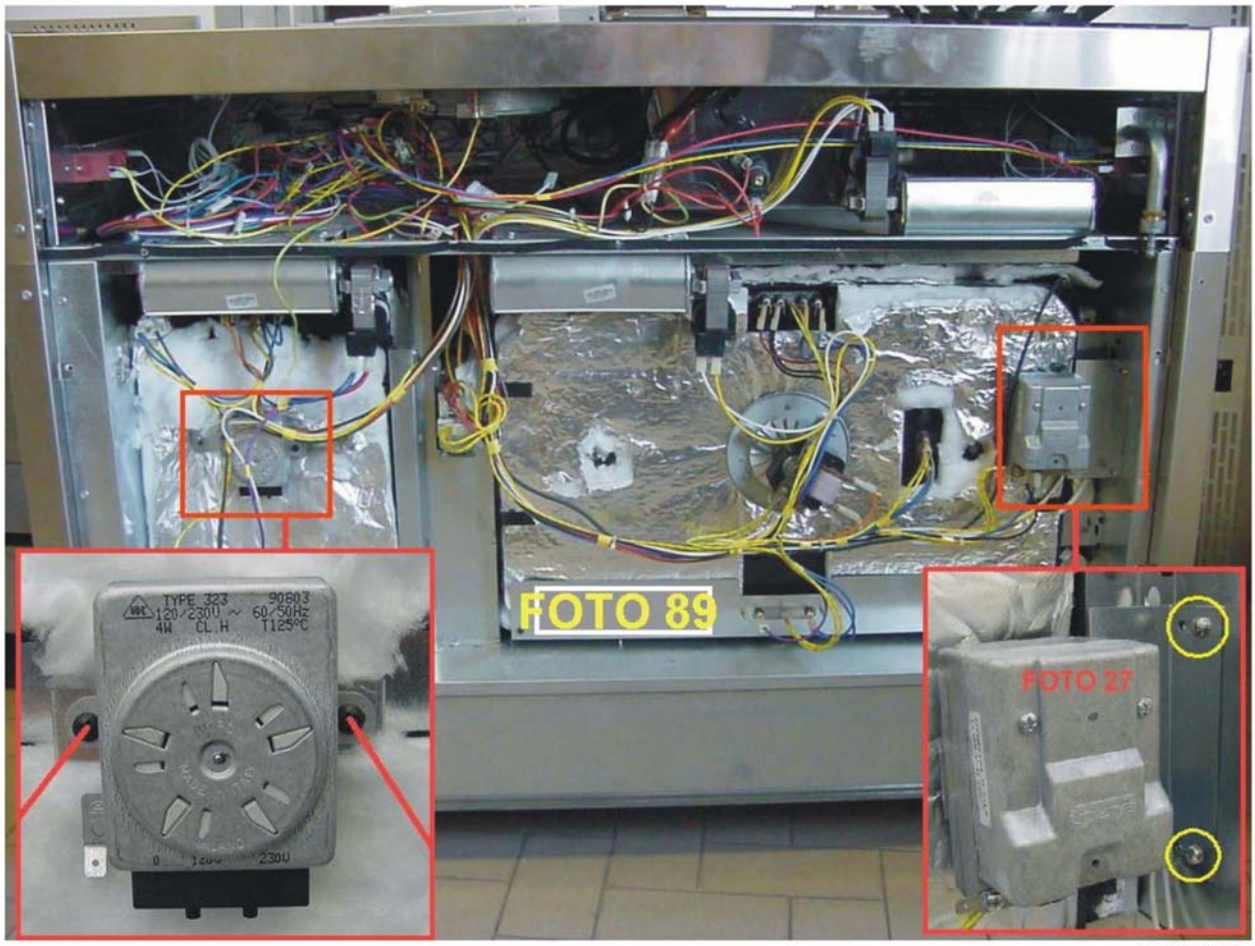
HDC03378.JPG



HDC03379.JPG

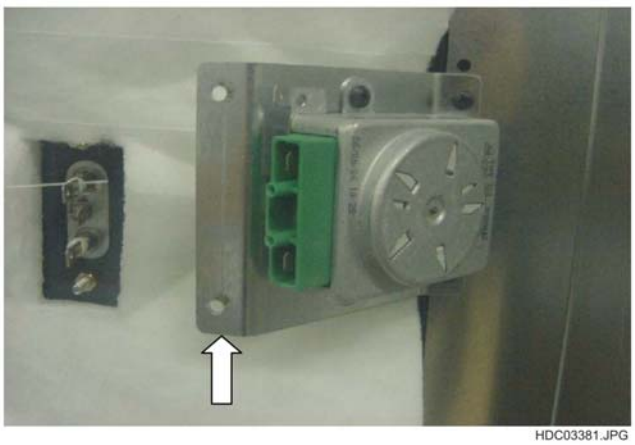
These two pictures show the fixing points for the cooling fan motors. The solution that is being used now is shown on the left.

2.10 - ROTISSERIE MOTOR



HDC03380.JPG

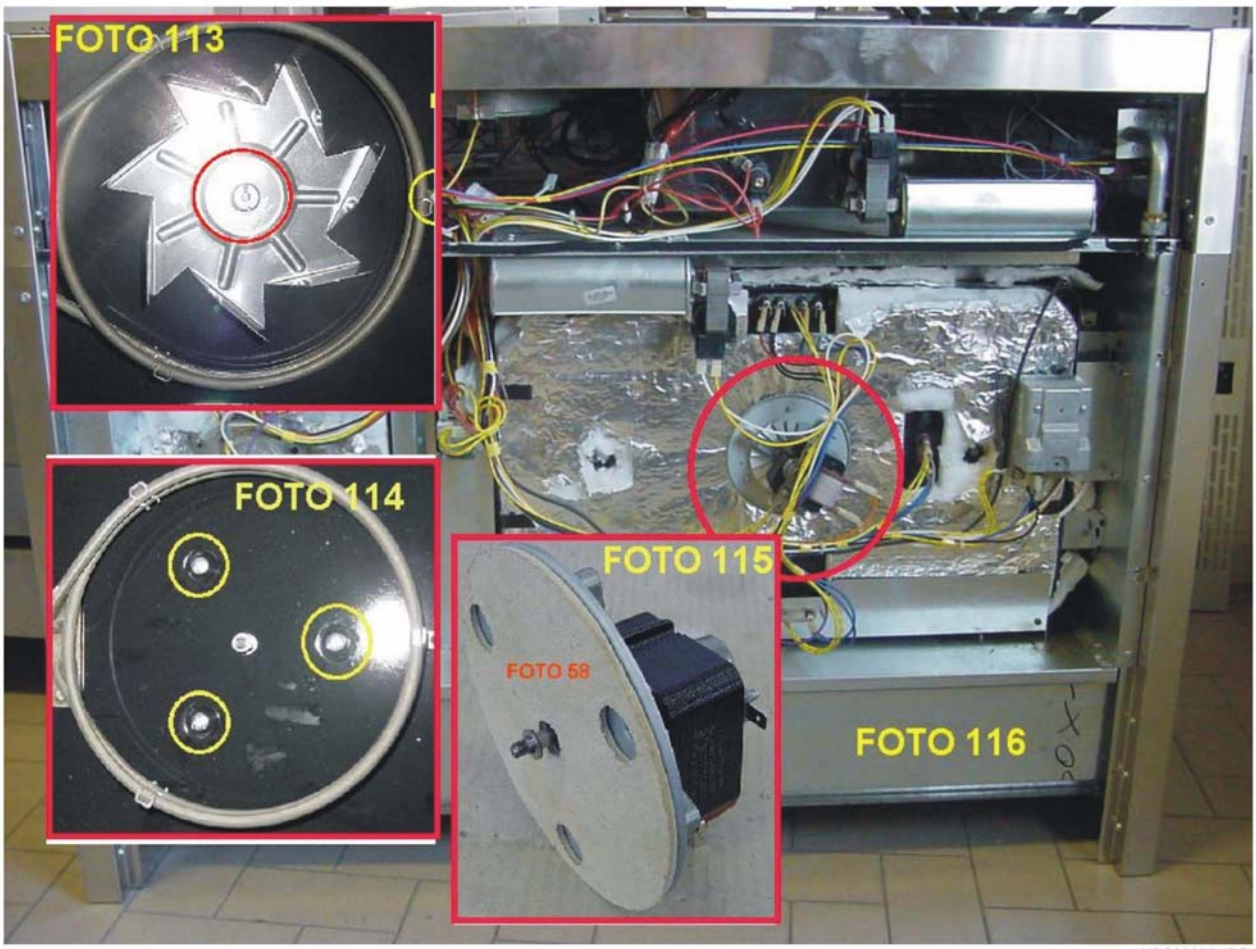
This picture shows two types of motor reducer for rotisserie: on the left the motor for the small 30 auxiliary oven, on the right the motor for the big 90/60 multifunction oven. A new kind of motor has been introduced now and it is the same on all the ovens.



HDC03381.JPG

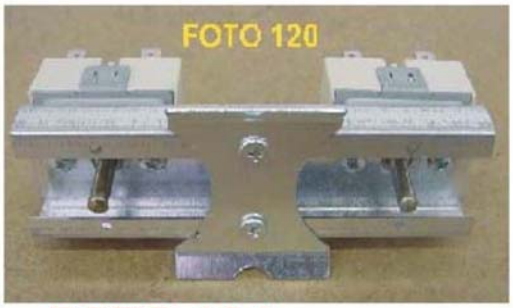
Warning!
When replacing a motor make sure that during assembling the support has been positioned correctly. To do this, refer to the picture on the left showing the kind of assembling for the 60 oven. For a 90 oven, the support must be overturned and three holes must be visible on the pointed side.

2.11 - OVEN FAN



Removing the fan motor. Remove the air-conveyor inside the oven. By means of an appropriate tool (a coin) remove the fan nut clockwise (picture no. 113). Pay attention since this is a reverse screw thread fixing. Take out the three screws fixing the motor (picture no.114). Before disconnecting the cables from the back, make a note of their position. Disconnect and remove the motor (picture no. 116). The fiber gasket shown in the picture no. 115 is no more available.

2.12 - ENERGY REGULATOR



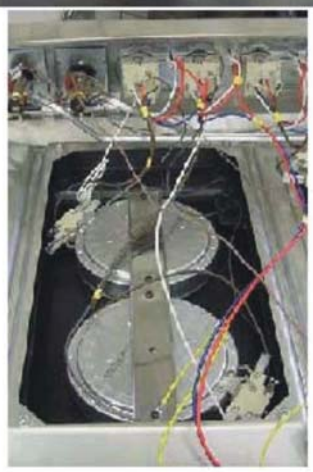
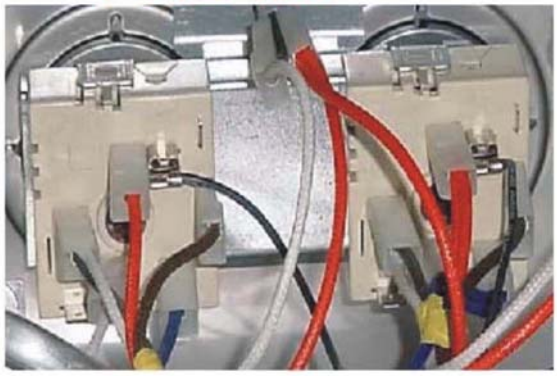
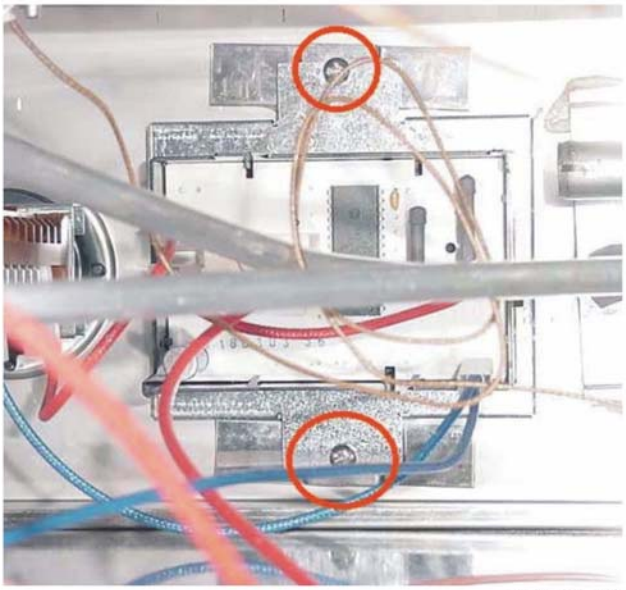


FOTO 124



HDC03383.JPG

2.13 - PROGRAMMER



HDC03384.JPG

The pictures show the screws fixing the display support.

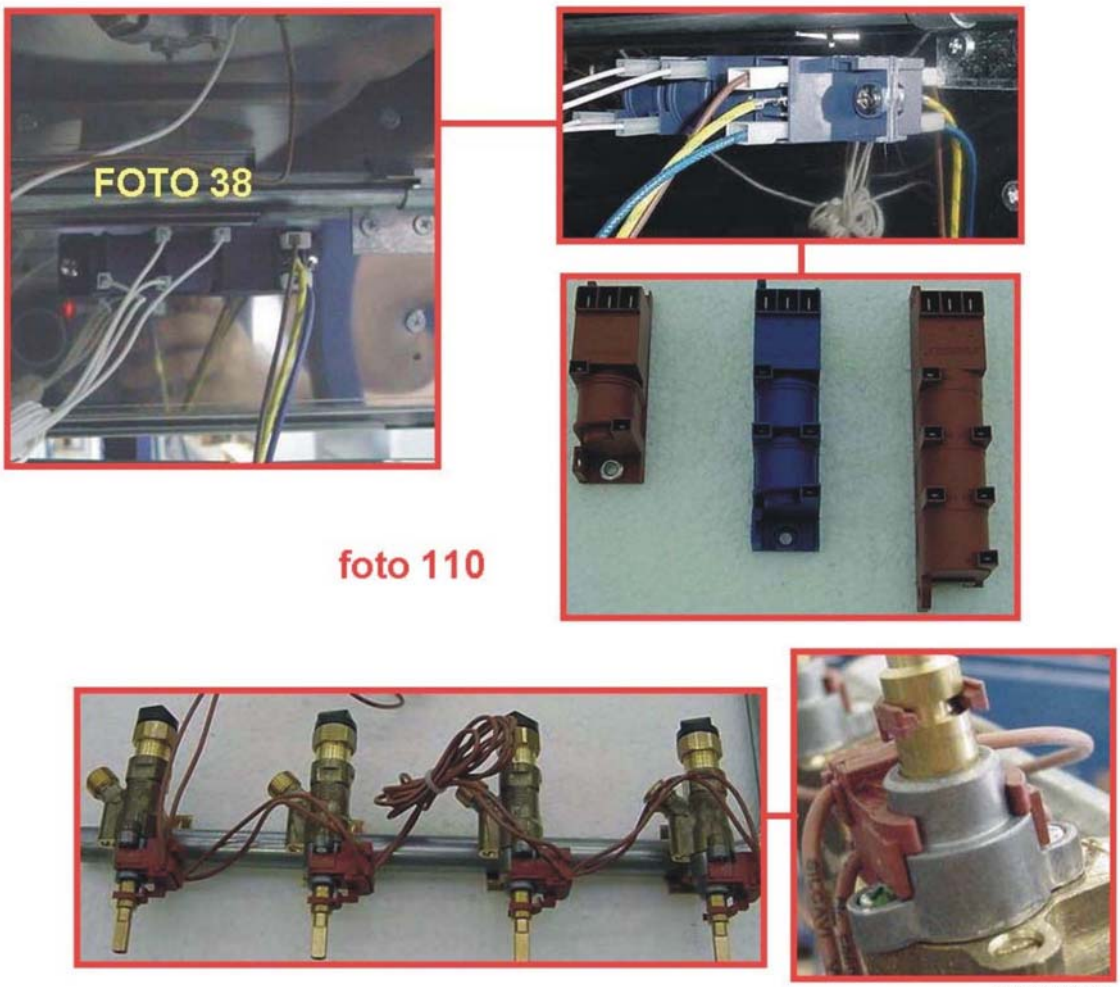
HDC03385.JPG

Timer fixed to the support.

HDC03386.JPG

Timer with support and glass.

2.14 - IGNITION SWITCH AND GENERATOR



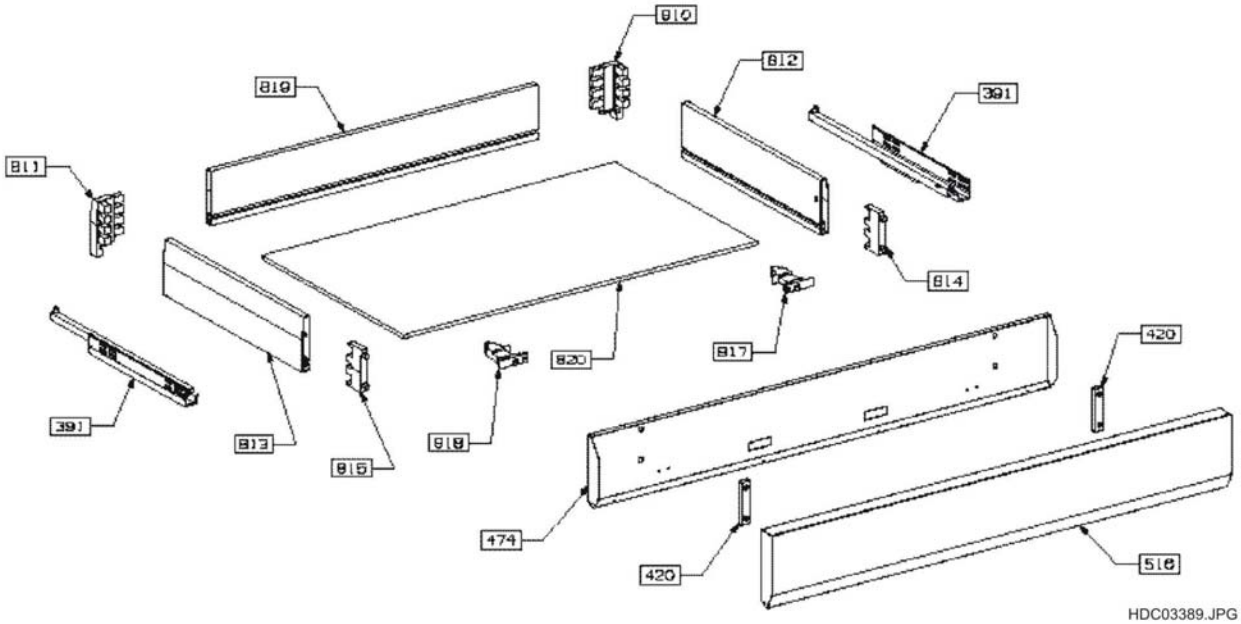
HDC03387.JPG

The above pictures show the three kinds of ignition and the detail of the contact on the tap. In the picture here under you may see the ignitions without contact mass that replace the previous ones (same compatibility).

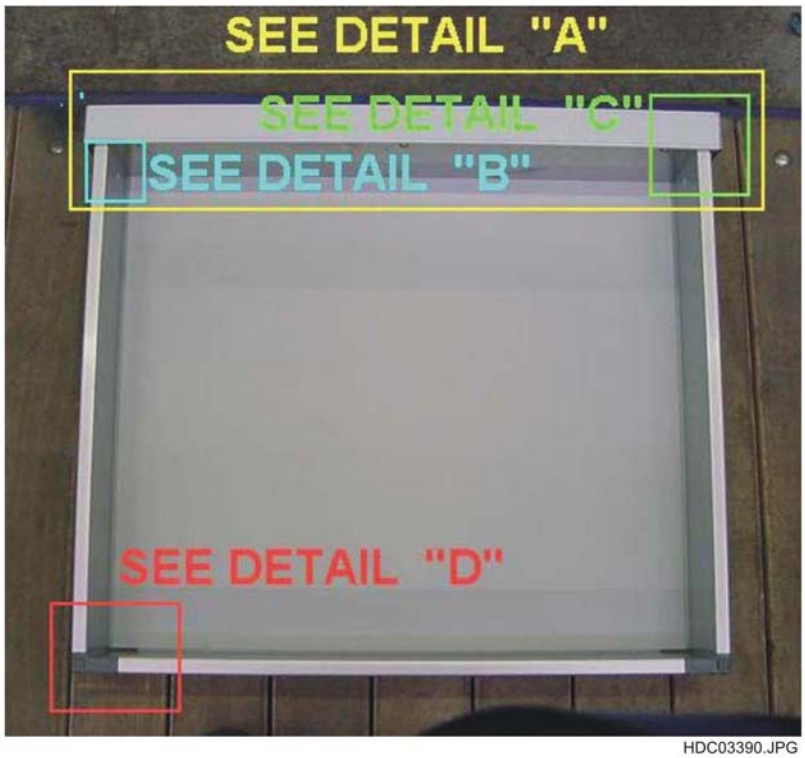
HDC03388.JPG

3 - OVENS AND HOBS MECHANICAL PARTS

3.1 - BOTTOM DRAWER



HDC03389.JPG

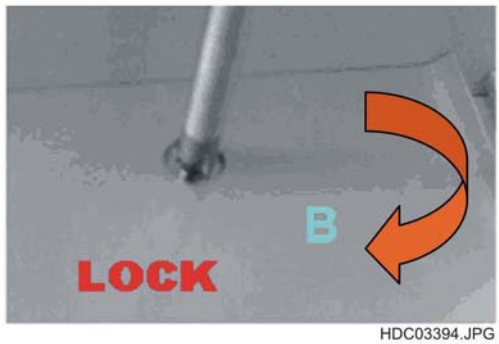


HDC03390.JPG

HDC03391.JPG

HDC03392.JPG

HDC03393.JPG

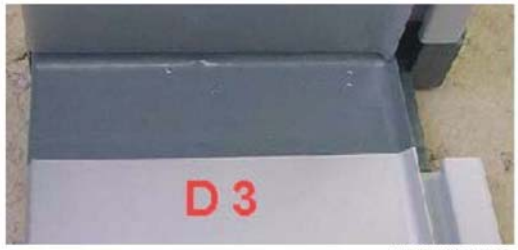


HDC03394.JPG

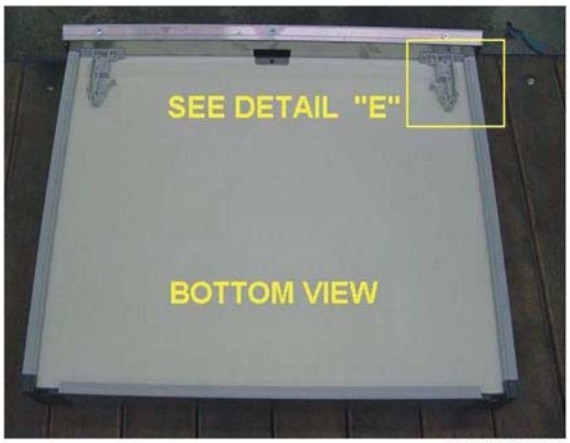
HDC03395.JPG

HDC03396.JPG

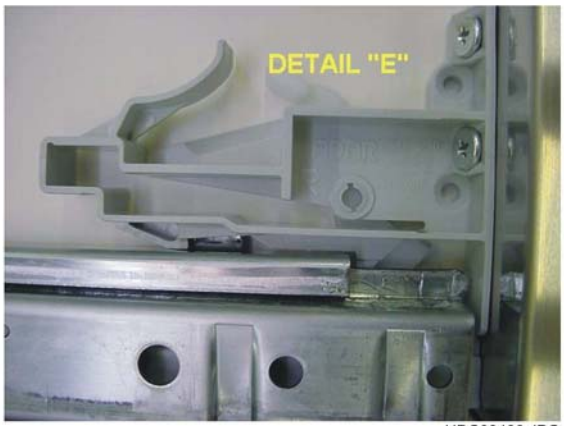
HDC03397.JPG



HDC03398.JPG



HDC03399.JPG



HDC03400.JPG

HDC03401.JPG

Clip of adjustment fastened to the running rail.

HDC03402.JPG

To unfasten the drawer press the lever in depth…….

HDC03403.JPG

After pressing both levers pull the drawer.

HDC03404.JPG

The picture shows the seating of the drawer.

HDC03405.JPG

Insert the new drawer by placing it on the rails.

HDC03406.JPG

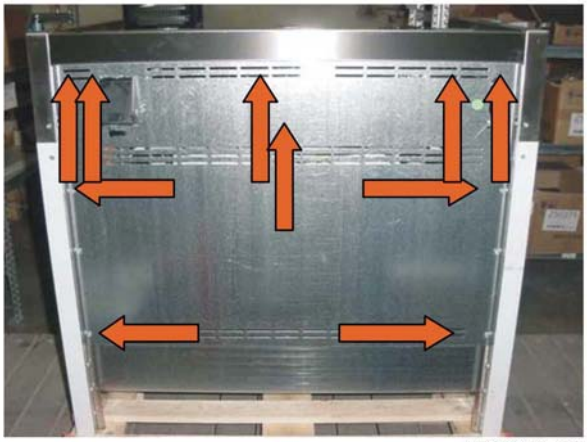
Push the drawer in depth.

HDC03407.JPG

Press until the click of withholding.

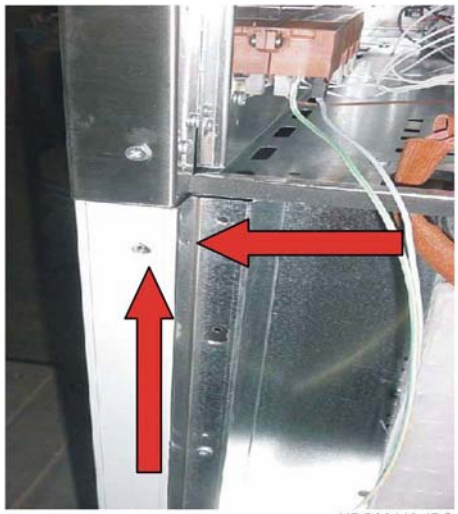
3.2 - DISASSEMBLING THE COOKTOP

HDC03408.JPG



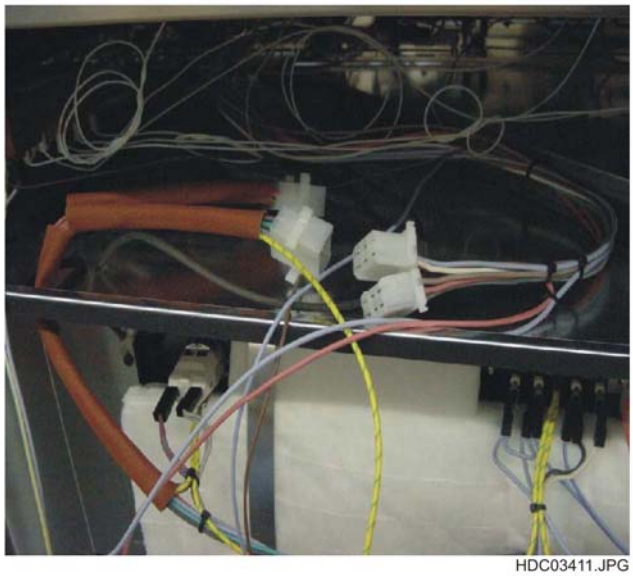
HDC03409.JPG

Remove the back panel and disconnect the cables from the terminal board (cookers manufactured before the year 2005) or remove the terminal board support (cookers manufactured after the year 2005).



HDC03410.JPG

Remove the inner and external screws to unlock the hob.



HDC03411.JPG

Disconnect the hob from the base: connectors, fan power supply, ignition power supply, and so on.

HDC03412.JPG

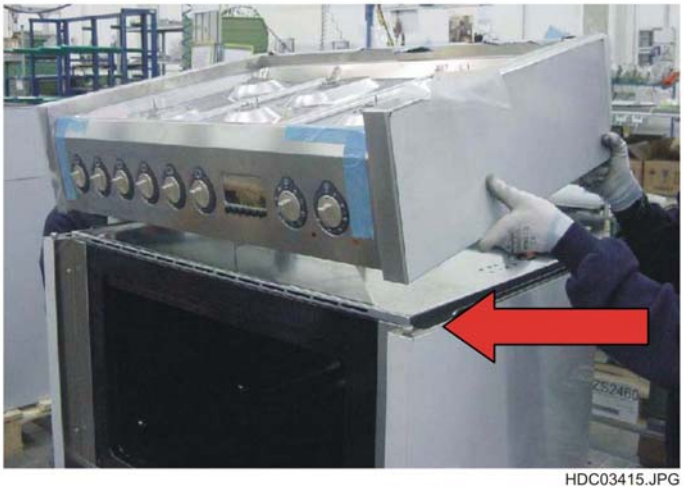
Unloose and remove the thermostat bulb.

HDC03413.JPG

Push the hob forward.

HDC03414.JPG

Lift the hob of few centimetres in the back.



HDC03415.JPG

Draw the hob out of the font studs and lift it.

To reassemble again follow the above instructions in reverse order.

HDC03416.JPG

On the reversed hob it is easy to do any kind of intervention, but this solution is to be adopted only when it is absolutely necessary.

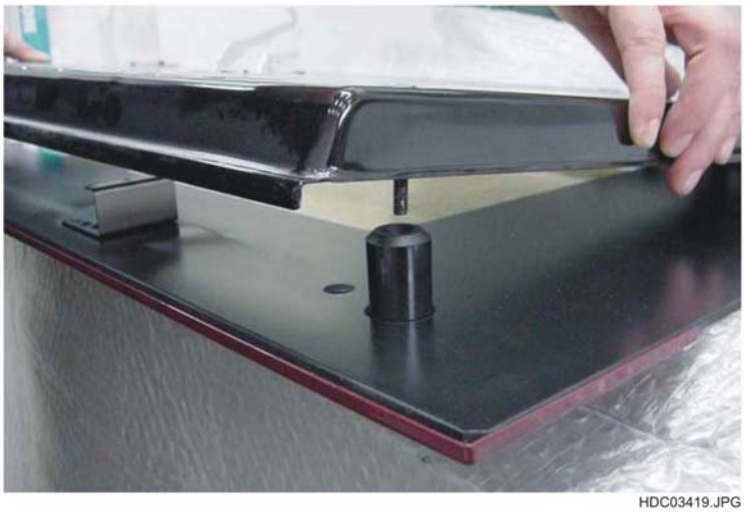
3.3 - OVEN DOOR WITH ENEMELLED COUNTERDOOR

HDC03417.JPG

The picture shows the door panel before the assembling of the counterdoor.

HDC03418.JPG

Here is a detail of the counterdoor with the hinge in the foreground.


HDC03419.JPG

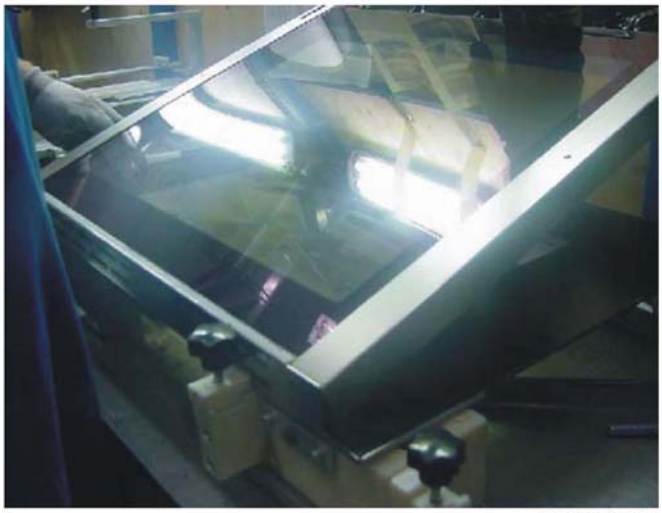
Here is the joining of the counterdoor to the door panel: the spacer and the screw to fix the handle in the foreground, the fixing plate to fix the counterdoor to the door panel in the background.

3.4 - OVEN DOOR WITH THREE GLASSES

HDC03419.JPG

Assembling a three glass oven door (any dimensions).

Here is the handle fixing screw, which will be hidden by the profile carrying the inner and intermediate glass. The handle must be screwed to the front before joining to the glass group.



HDC03420.JPG

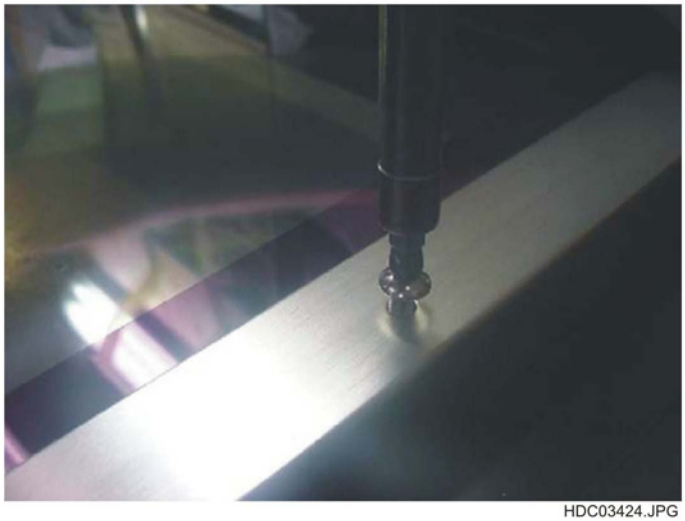
After assembling glass and lateral profiles, the group must be coupled to the external door panel. The glass group must be inserted under the door upper frame.

HDC03421.JPG

The glass group side carrying the set for the hinges is the lower part of the door. This need now to be lean on the lower side.

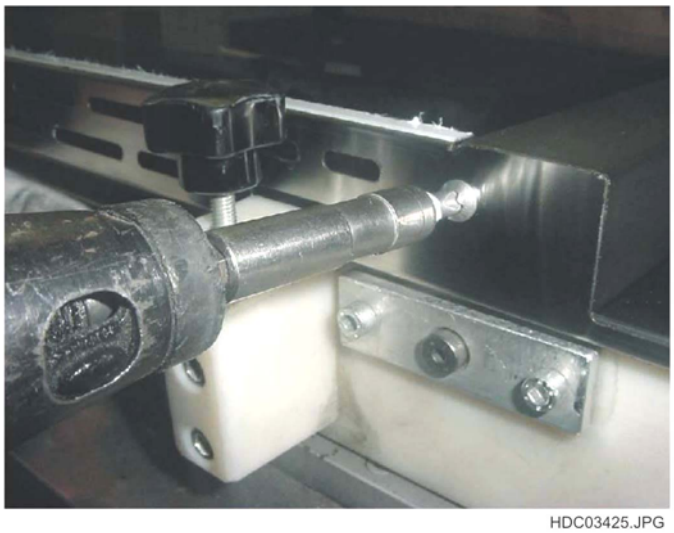
HDC03423.JPG

Insert the hinges and then join the group to the door panel.



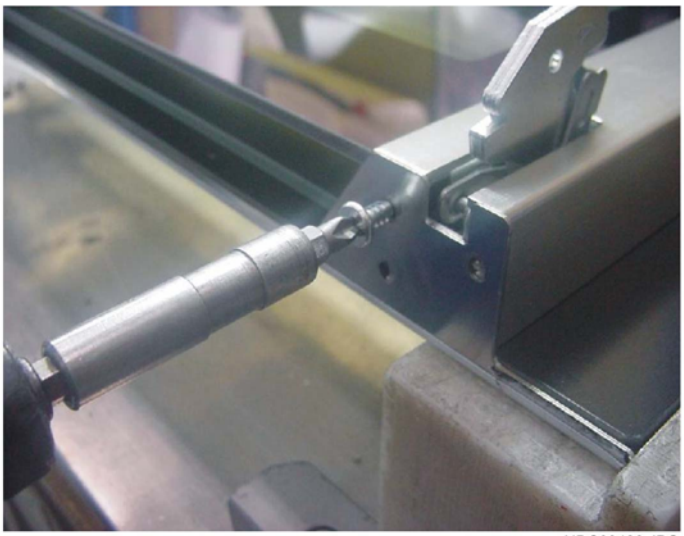
HDC03424.JPG

The hinges are screwed on the upper side.



HDC03425.JPG

The profile carrying the hinges is screwed on the upper side.



HDC03426.JPG

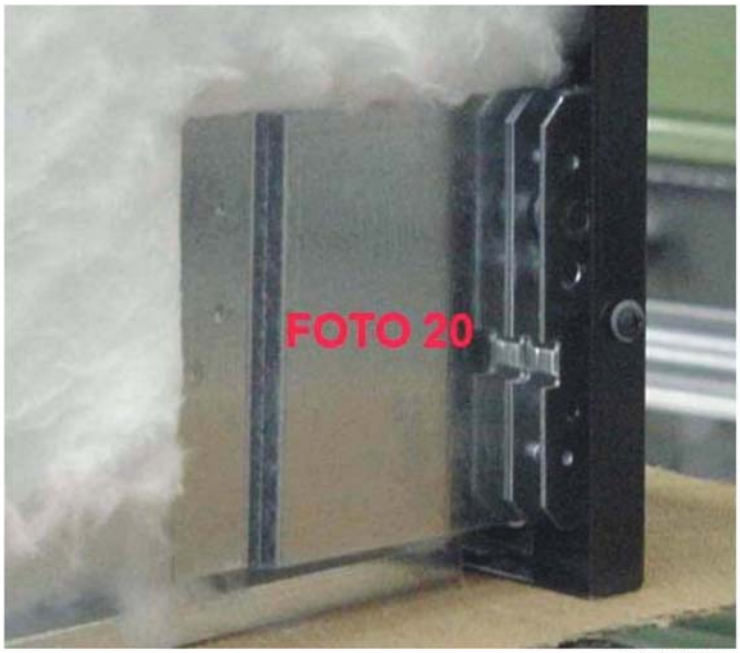
When fixing the lower side, start from the profiles then insert the screw to fix the lower hinge.

HDC03427.JPG

Here is the finally assembled profile.

The above instructions may be useful also to replace a profile or a glass or hinges.

3.5 - HINGE ROLLERS AND SUPPORTS



HDC03428.JPG

The picture shows the hinge roller that was used initially. In the sequence of pictures here below it is shown how to replace the hinge support now in use.

After removing the hob, proceed as follows.

HDC03429.JPG

Disassemble the fan motor and the conveyor.

HDC03430.JPG

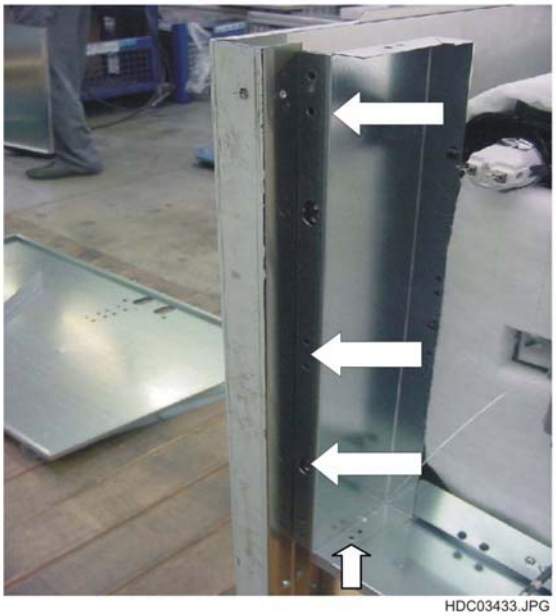
Disassemble the fan crankcase.

HDC03431.JPG

Disassemble the central back support.

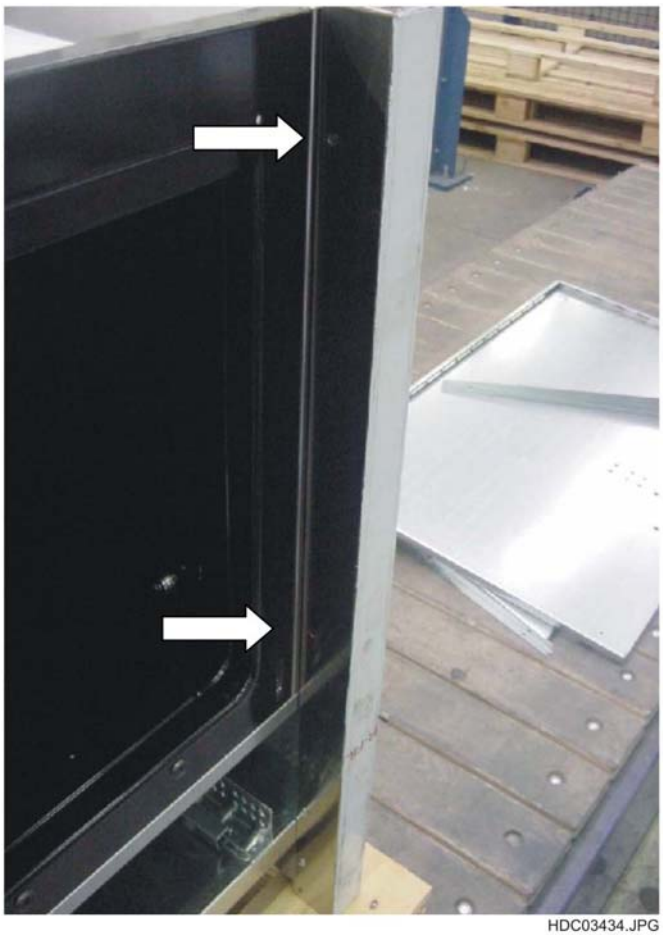
HDC03432.JPG

Unblock the front one.



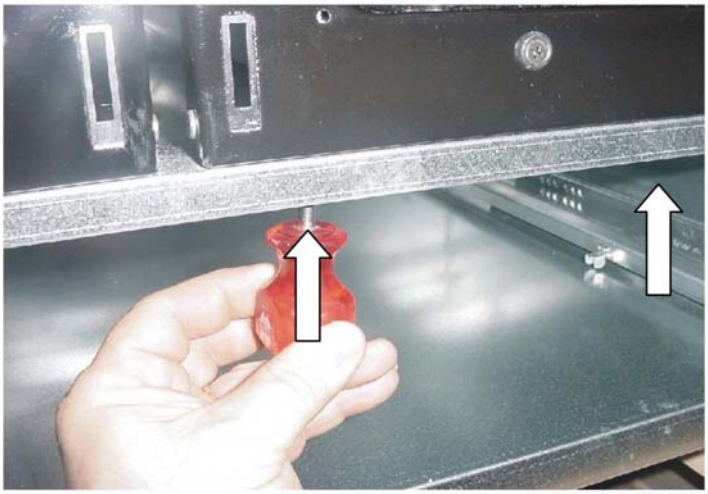
HDC03433.JPG

Unscrew the back support.



HDC03434.JPG

Unscrew the front support.

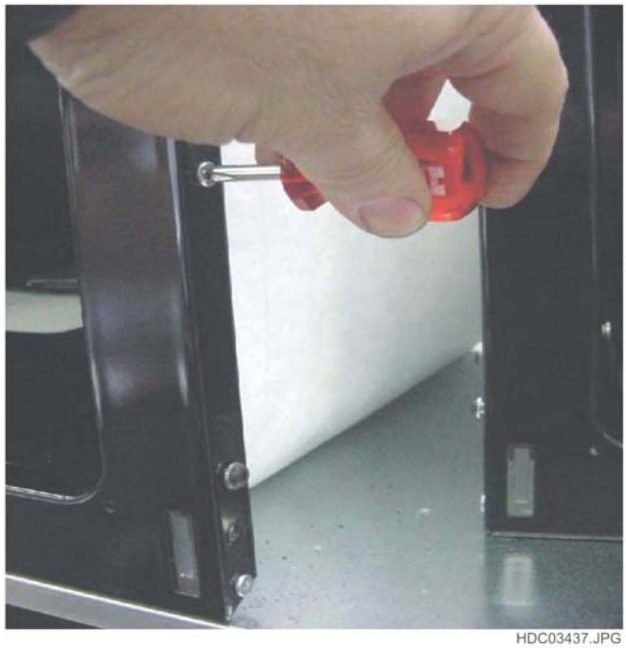


HDC03435.JPG

Take out the lower screws that fasten the oven front side.

HDC03436.JPG

Move laterally the small oven and proceed with replacing the supports.



HDC03437.JPG

Follow the above instructions for the other oven.

HDC03438.JPG

By means of an appropriate tool unscrew the roller.

HDC03439.JPG

Take the roller out and replace with a new one.

The above instructions may be followed also in case of rollers used till the year 2004 (see picture no.20 at the beginning of the sequence), the only difference is on the fixing being frontally and from the outside instead of laterally.

To reassemble again follow the above removing instructions in reverse order.

3.6 - KNOBS AND BEZELS

HDC03440.JPG

Single bezel for AEG models.

HDC03441.JPG

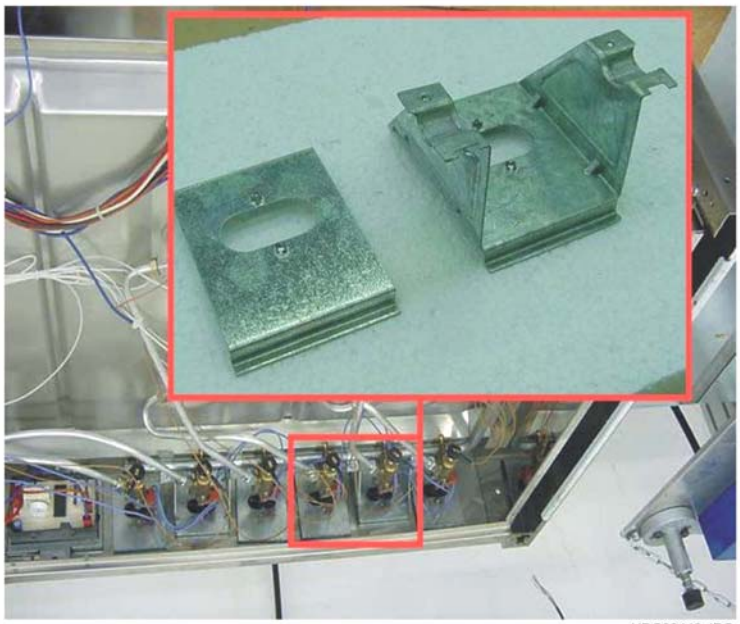
One piece big bezel for Electrolux models.

Instructions to replace one or more bezels.

HDC03442.JPG

The picture shows one hob.

Warning! The two pointed taps must never been removed at the same time, one must always stay at its place, since behind them is located the gas ramp and in case they are removed simultaneously the alignment of the ramp may be endangered.



HDC03443.JPG

This is the inside of the hob. The two pieces in foreground are the bezels supports, the one on the right supports also the gas ramp (see previous picture), the one on the left keeps the bezels in position.

HDC03444.JPG

Start the operation by removing all the knobs.

HDC03445.JPG

Here are the screws fastening the bezel.

HDC03446.JPG

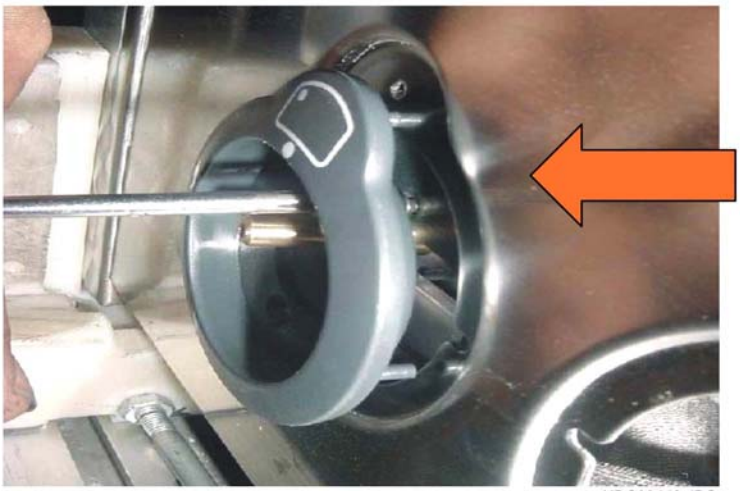
The picture shows the ramp support after removing the bezel. Usually this part keeps its position since the ramp supports it.

HDC03447.JPG

Replace the bezel taking care not to force the screws and verify that the plastic pins enter the holes.

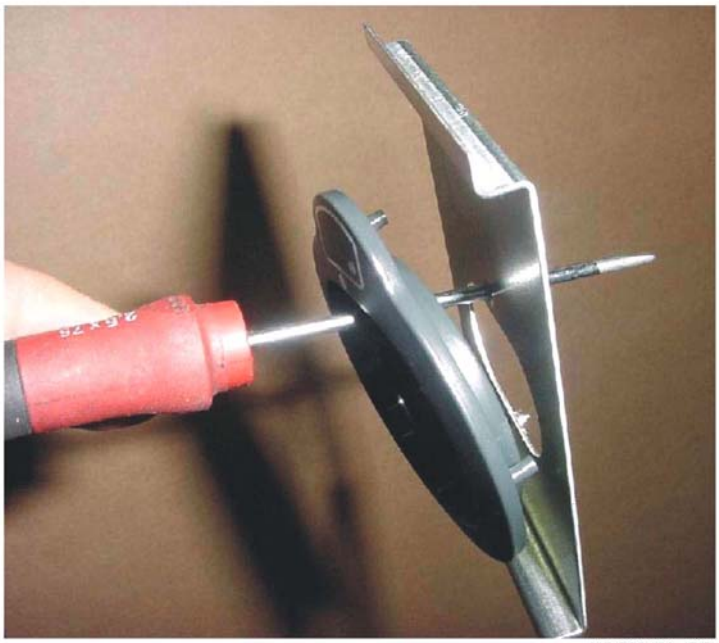
HDC03448.JPG

Here’s the support of the other bezels, when removing the screws they will tend to fall onto the tap axle, in this case, before replacing the bezel, make sure to have correctly positioned it as shown in the picture.



HDC03449.JPG

Take care to insert the screw without turning the support inside, then after one turn of the screw bring the pointed plastic pin into the hole and screw. After that insert the second screw.



HDC03450.JPG

As an alternative, you could align the two parts with a thin screwdriver passing through the bezel hole and then trough the support hole, then insert the lower screw.

4 - FREESTANDING OVEN ASSEMBLY STEPS

HDC03451.JPG

Preparing of the structure.

HDC03452.JPG

Here is one complete structure of a 70 cm cooker.

HDC03453.JPG

Preparing of the multifunction oven.

HDC03454.JPG

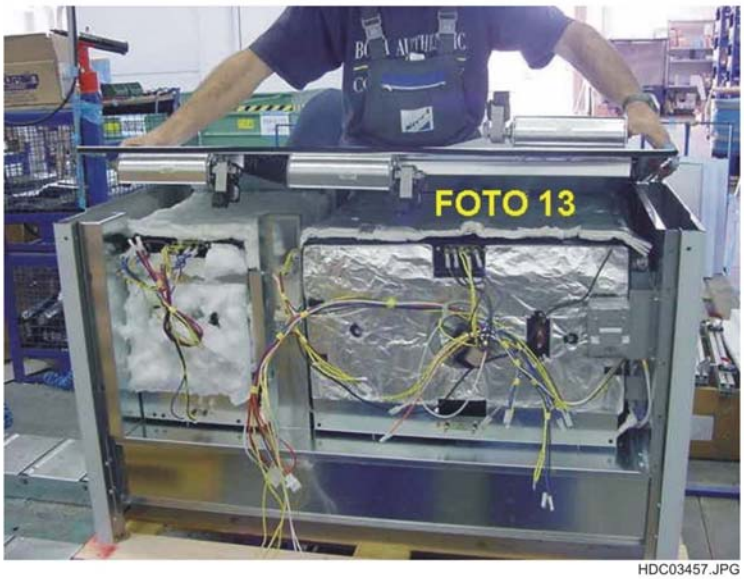
Here is the joining of the two ovens in a double oven cooker.

HDC03455.JPG

Here is the front view of the previous picture.

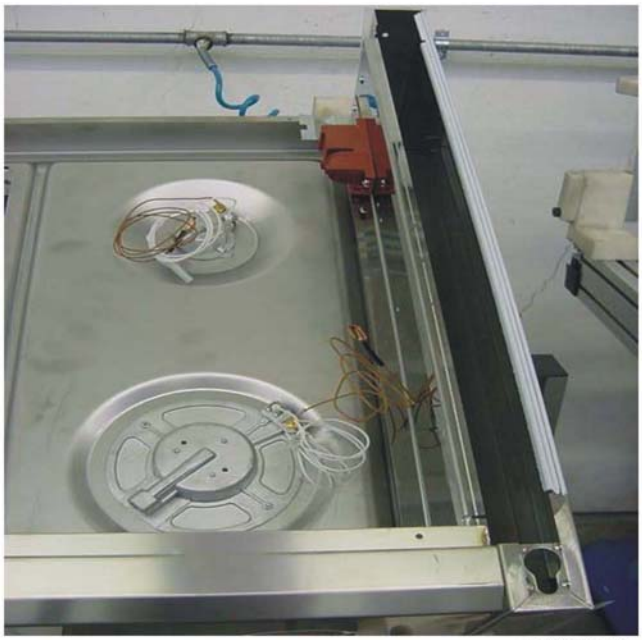
HDC03456.JPG

The picture shows the inserting of the ovens group into the structure of one double oven cooker.



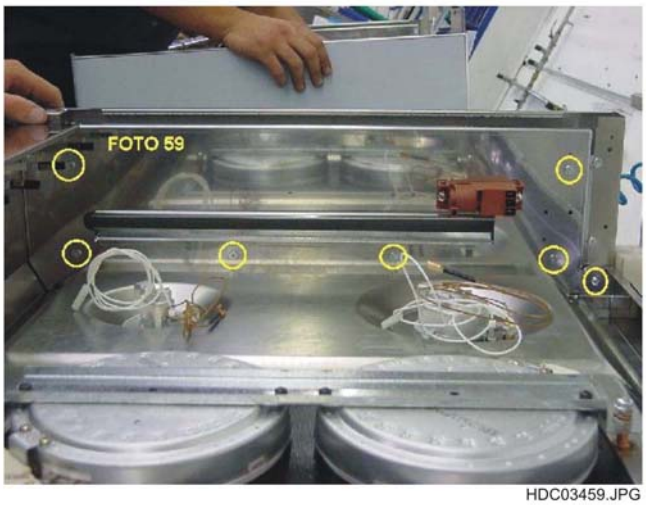
HDC03457.JPG

Assembling of the air-conveyor on a double oven cooker.



HDC03458.JPG

View of the lower part of the assembled side panel and in foreground the fastening system to the lower part of the cooker structure.

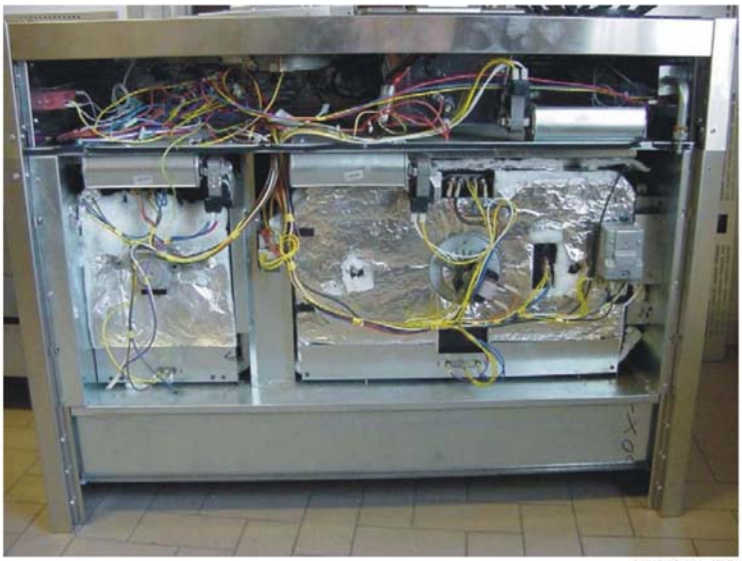


HDC03459.JPG

The picture draws attention to the screws fastening the side panel to the hob.

HDC03460.JPG

The picture shows an assembled side panel with its reinforcement. You may notice the rubber needed to seal the fissuring.



HDC03461.JPG

Rear view of the cooker with the assembled hob. After the wiring, the cooker will be closed and tested (here's a double oven cooker).